# **Utilities Overview**

# Land West of Raymond Mays Way, Bourne



Utility Consult Limited
Unit 2 Gretton Brook Road
Earlstree Ind. Est.
Corby
NN17 4BA

01536 639000 sam@utilityconsult.co.uk

# 1. Introduction

This Utilities overview has been carried out at the request of the BDW Cambridgeshire & explores the onsite existing utility constraints & likely points of connection to supply the proposed development.

The proposed development site is located to the South West of Bourne in Lincolnshire, a copy of the site location is provided in appendix A. This overview & its findings are based upon a proposal for up to 900 residential dwellings only.

# 2. Existing Utility Constraints

This section details comments in relation to the existing utility constraints crossing the proposed development from the relevant network operators. Please note that other services may be present within the site boundary & to the proposed development accesses, we have not undertaken a full existing utility records search so it is recommended that once detailed proposals are available that these are reviewed in detail.

# 2.1 High Pressure Gas Pipeline

Cadent Gas have an existing 273mm ST High Pressure Gas Pipeline crossing the proposed development site running in an East/West direction. Due to the strategic nature of this infrastructure, it is assumed that this pipeline will be treated as a constraint.

We have been in contact with Cadent to understand their easement & building proximity distances for this pipeline, copy of correspondence received is contained at appendix B. The minimum easement is defined as '20 feet in width with two 10 feet support strips making a total of 40 feet in width centred on the HP gas pipeline' & 'the minimum Building Proximity distance for this HP gas pipeline is 16.5m'. Any proposed crossings of this pipeline would also require suitable structural & integrity assessment prior to consent.

# 2.2 132kV Overhead Electricity Network

Western Power Distribution have two existing 132kV overhead Electricity networks crossing the proposed development site running in an East/West direction. Due to the strategic nature of the infrastructure, it is assumed that these networks will be treated as constraints.

Following early conversations with WPD we have been informed to ensure that we maintain a minimum of '15mtr distance from the outermost conductors and 15 mtr from the bases of any towers' during design to ensure clear access is maintained to this network. Any proposed crossings under the network will require assessment to ensure sufficient height is maintained.

# 3.0 Proposed Utility Connections

We have made contact with the incumbent Water Company & local Distribution Network Operator to understand the likely points of connection & any capacity issues for the proposed development.

### 3.1 Water

We have been issued a Pre-Planning Assessment for the proposed development by Anglian Water, a copy of this is contained at appendix D. The local Water network is said to currently be able to supply the proposed development by the use of two points of connection, the first from the 280mm HPPE off the roundabout at Raymond Mays Way (this can only supply properties with elevation of up to 25m AOD) & the second from the West at the 200mm DI water main in Toft Pumps. Properties on higher ground level will have to be supplied from the pumping station at Toft.

## 3.2 Electricity

We have been in contact with Western Power Distribution to understand the likely point of connection for the proposed development. Based on WPD network adoption they have estimated an approximate loading of up to 12.6mVA, the point of connection based on this loading would currently need to come from two existing primary substations, Tunnel Bank & Bourne (the location of these is shown in appendix E), with both of these primary substations requiring new breakers installing.

It is possible that the proposed development could be adopted by an iDNO most of whom currently use much greater diversity, hence we have also been provided with an alternative point of connection for 4.5mVA, this only requires connection back to the Bourne primary substation & the installation of new breakers at this location only.

### 4.0 Summary

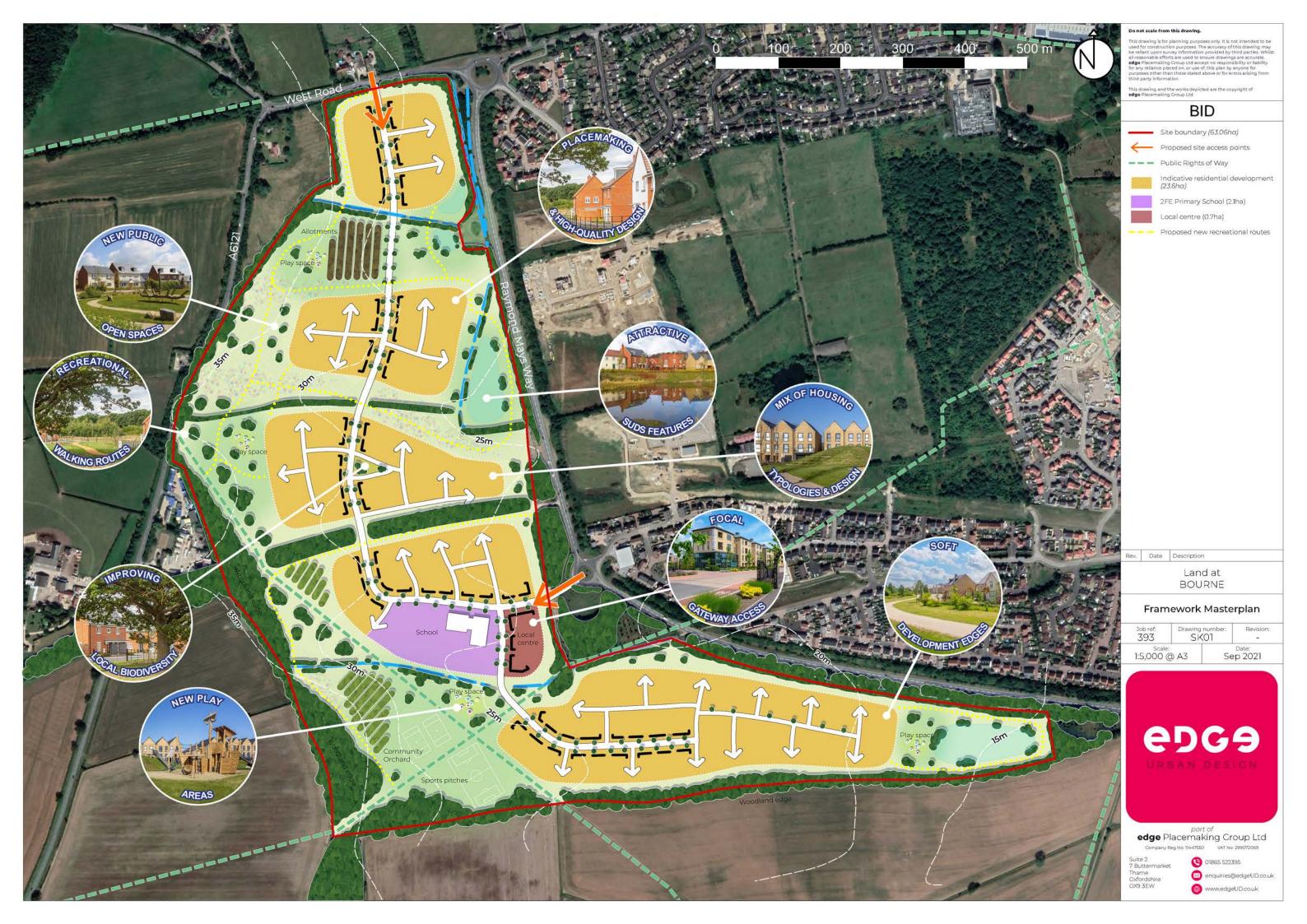
In summary the two existing utility constraints have been provided with clear guidance on recommended distances which can be designed into the proposed masterplan. At a detailed stage any proposed crossing points will require formal review of levels & structural assessment. It must also be added that the HSE Land Use & Planning Assessment may have its own requirements in addition to those implied by the network operator.

With regards to the supply of potable Water & Electricity to the proposed development both the incumbent Water Company & Distribution Network Operator have confirmed at present that capacity is or can be made available for this proposed development from local networks.

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Any costs provided in this report are for budget purposes only, they may have been provided by 3rd parties or assumed by ourselves. It is recommended that firm applications are made to the relevant utility companies to confirm points of connection, capacity, reinforcement & site works costs.

# Appendix A –Site Location



| Appendix B – Cadent Gas Correspondence |  |  |
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### Samuel Daulby

From: .box.emplantprotectionops <emplantprotectionops@cadentgas.com>

15 December 2021 08:59 Sent:

Samuel Daulby To:

FW: [EXT] RE: LSBUD Ref: 24168241 Your Ref: RMW Bourne DBYD HP-IP-MP-LP affected High Risk Subject:

**Attachments:** 393\_SK01-Framework Masterplan LR.pdf; Bourne - Location Plan.PNG

Follow Up Flag: Follow up Flag Status: Completed

Sam

Looking at your enquiry, the minimum Building Proximity distance for this HP gas pipeline is 16.5m and our easement strip is 20 feet in width with two 10 feet support strips making a total of 40 feet in width centred on the HP gas pipeline, 20 feet (6m) each side of the 273mm HP gas pipeline.

Kind regards

Steven Biddle Network technician **East Midlands Pipelines Plant Protection** 

Cadent

Steven.biddle@cadentgas.com

From: Samuel Daulby <sam@utilityconsult.co.uk>

Sent: 14 December 2021 17:40

To: .box.emplantprotectionops <emplantprotectionops@cadentgas.com>

Subject: [EXT] RE: LSBUD Ref: 24168241 Your Ref: RMW Bourne DBYD HP-IP-MP-LP affected High Risk

Good Afternoon,

We are currently designing a new scheme in close proximity to your existing pipeline.

Can you confirm the safe working Easement & building proximity distances for this network so that we may factor into our design.

Kind regards,

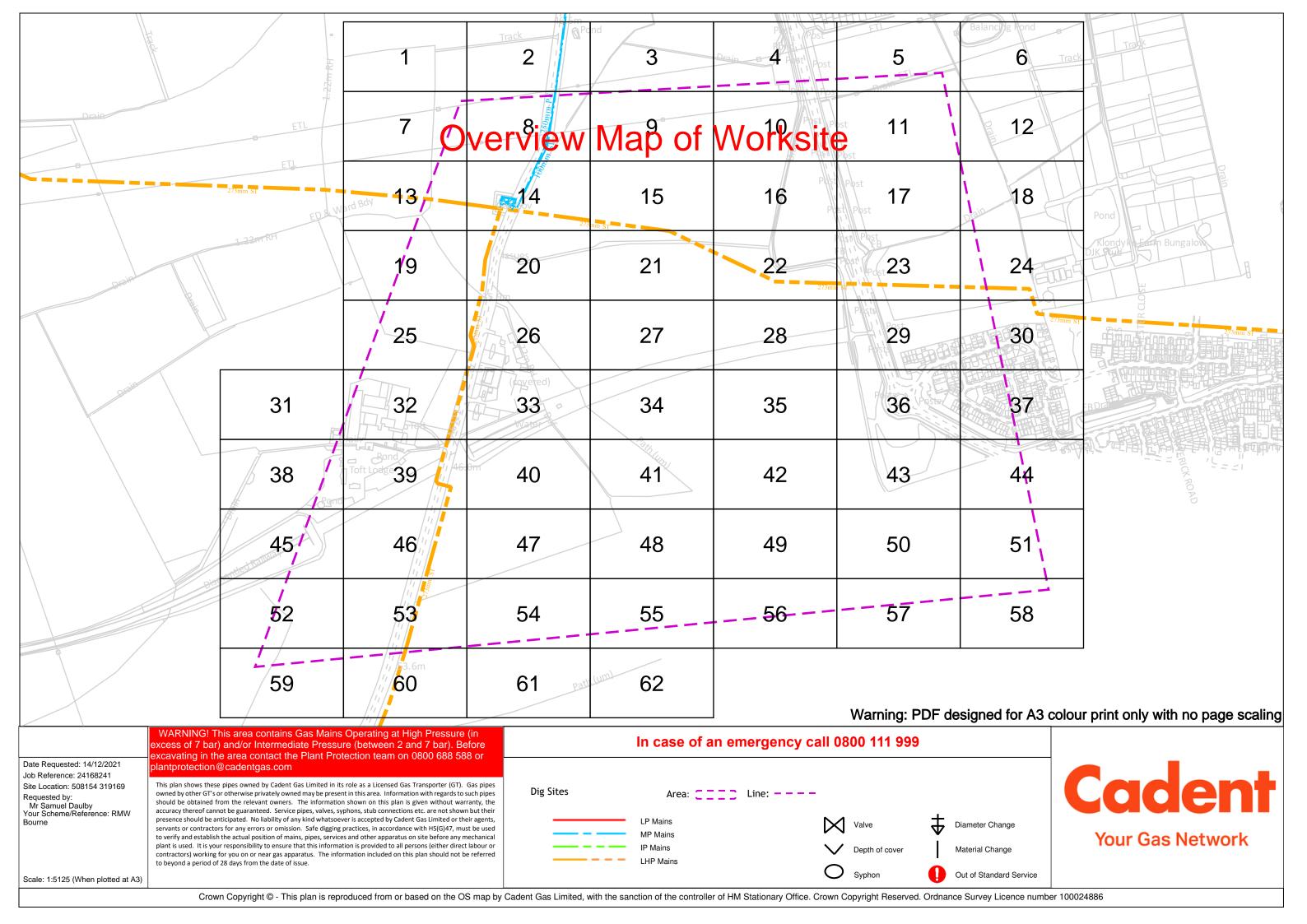
Sam Daulby T. 01536 639000

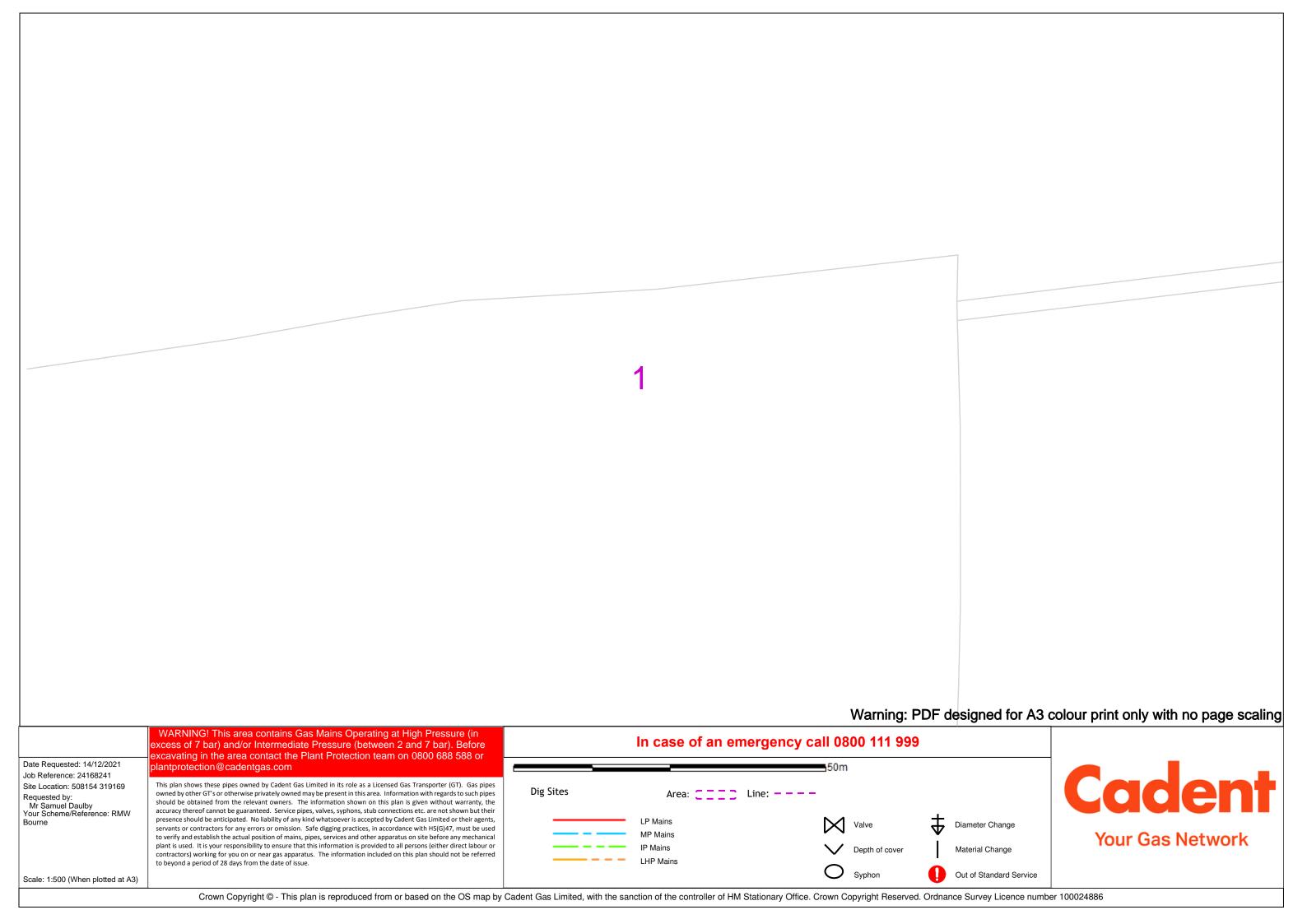
E. Sam@utilityconsult.co.uk

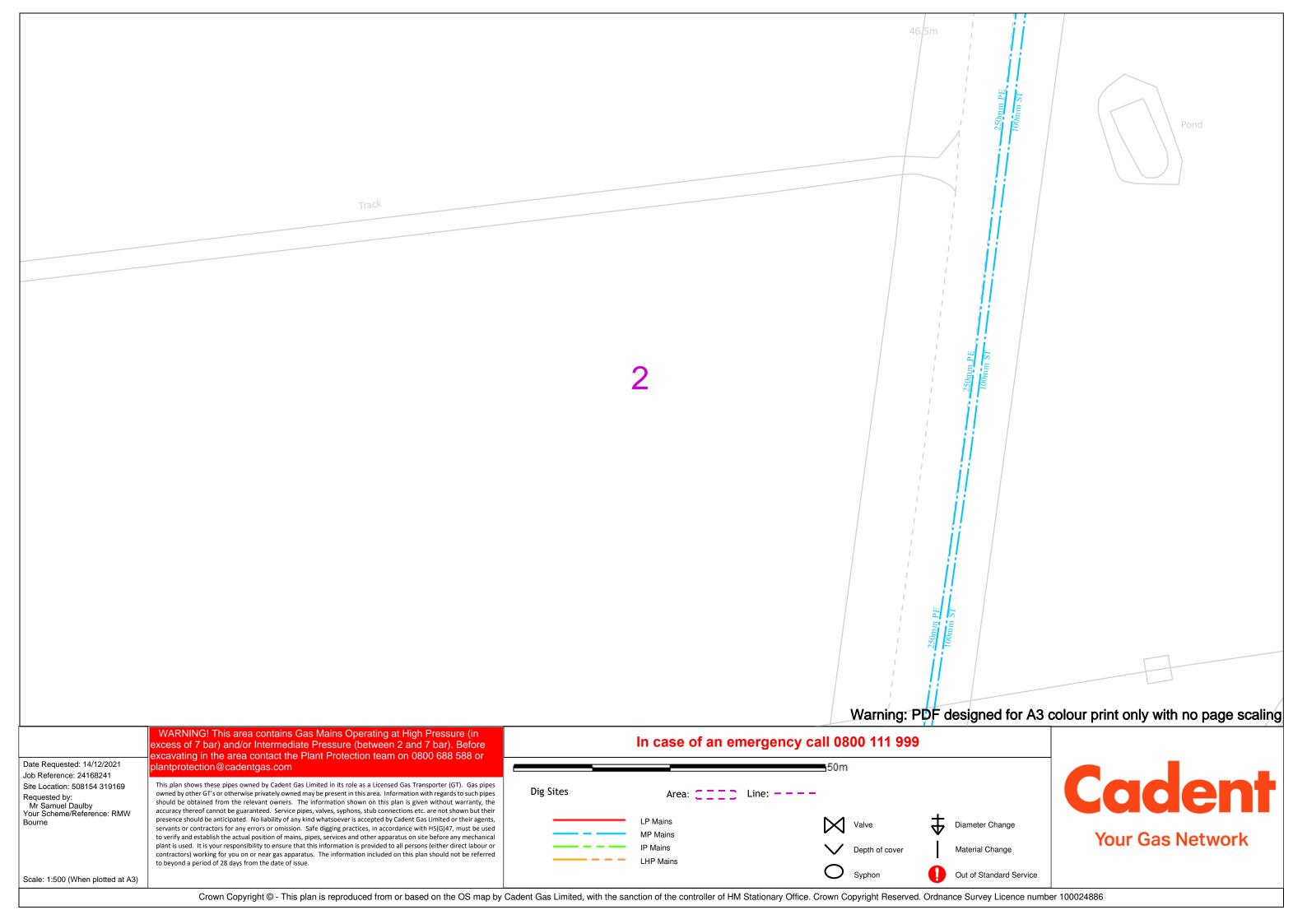


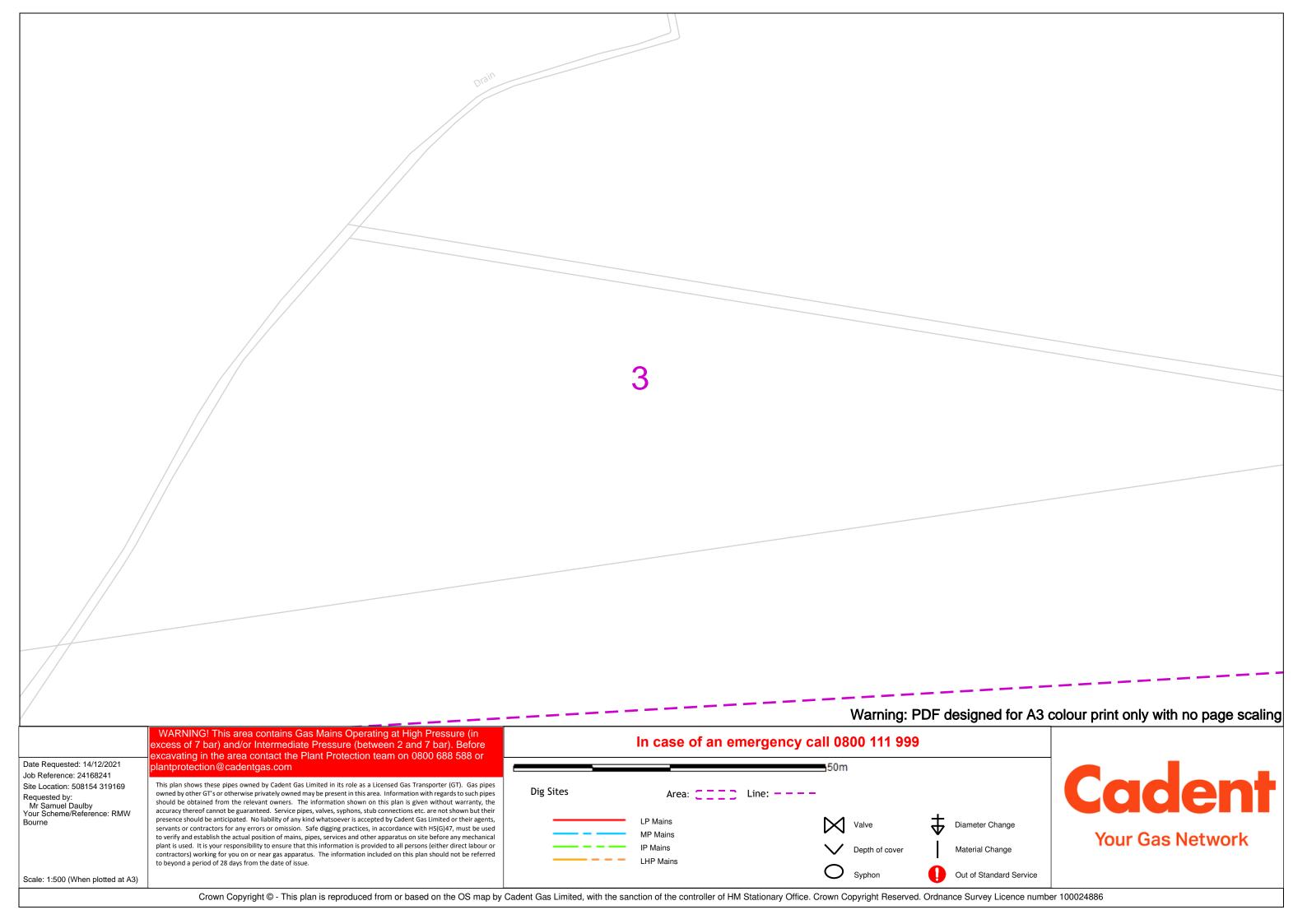
Utility Consult Limited, Unit 2 Gretton Brook Road, Earlstrees Industrial Estate, Corby, Northamptonshire, NN17 4BA

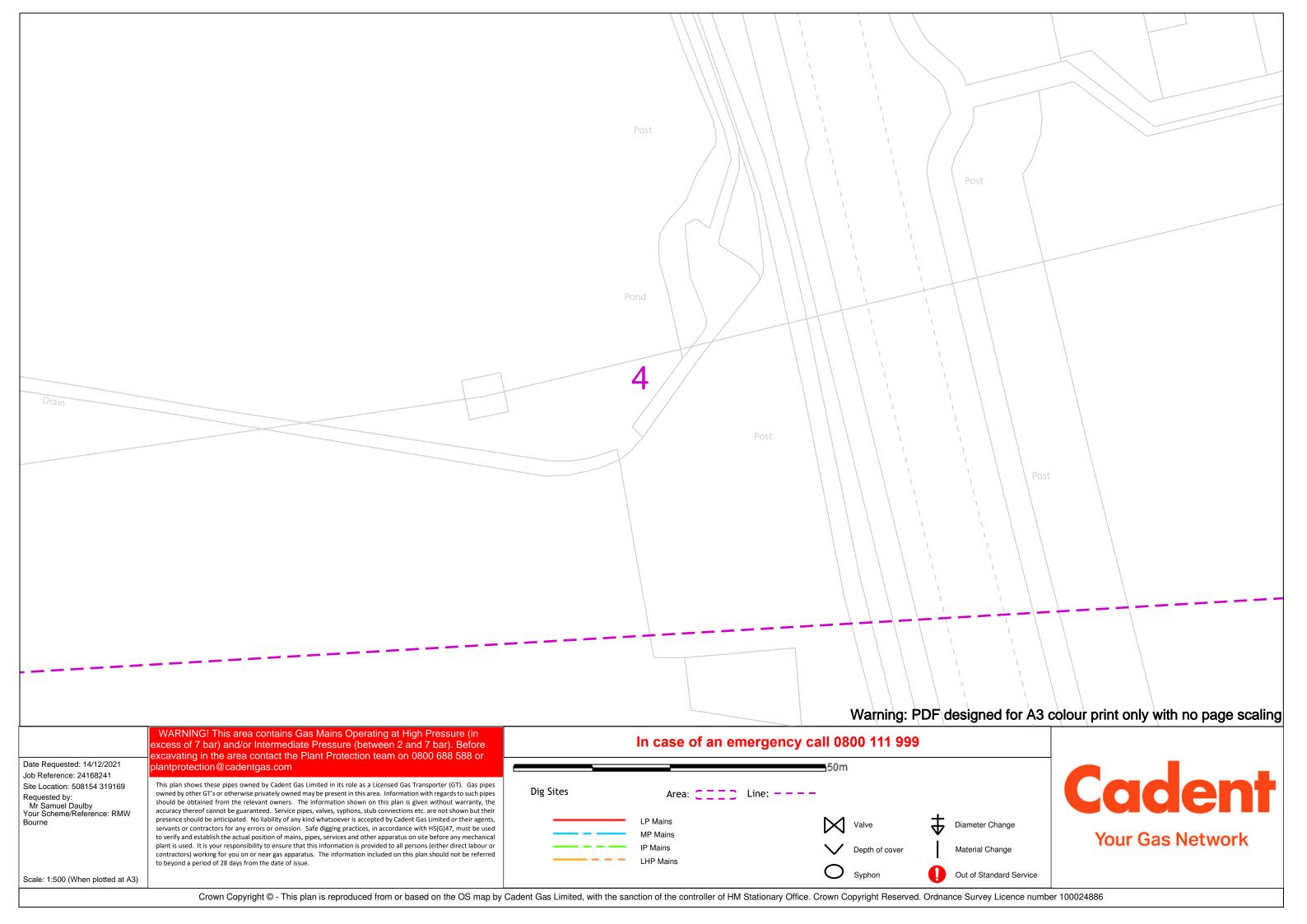
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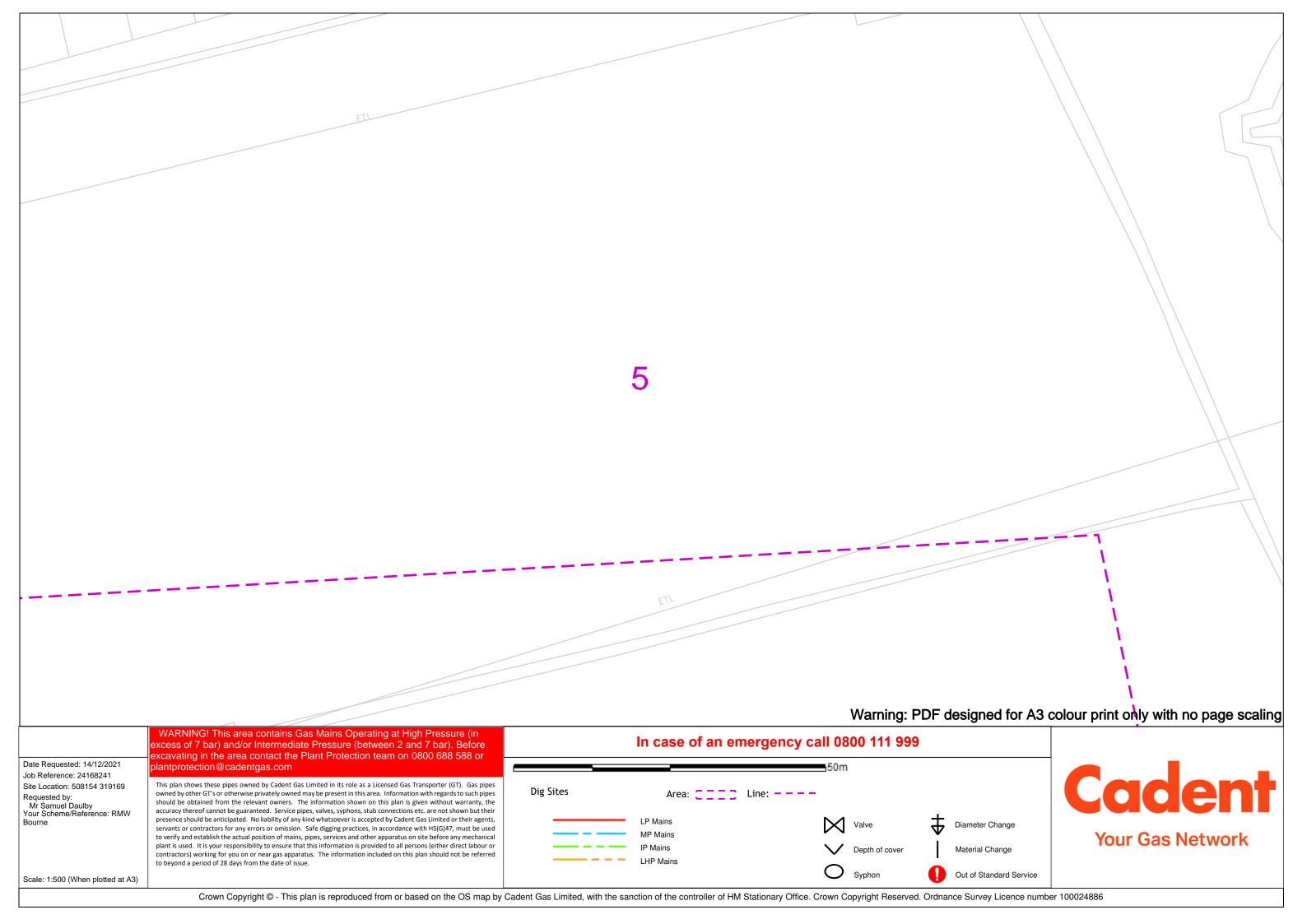


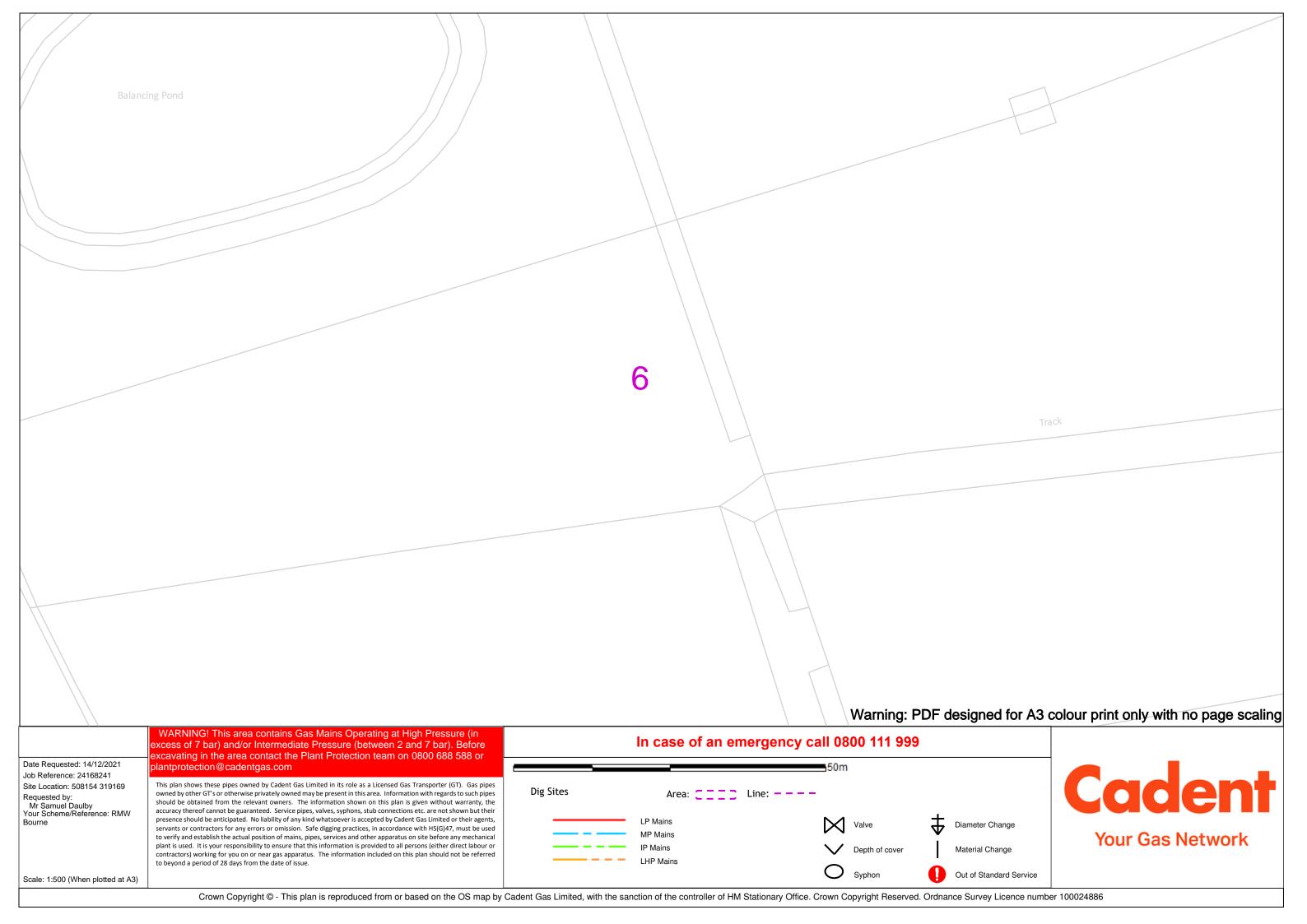


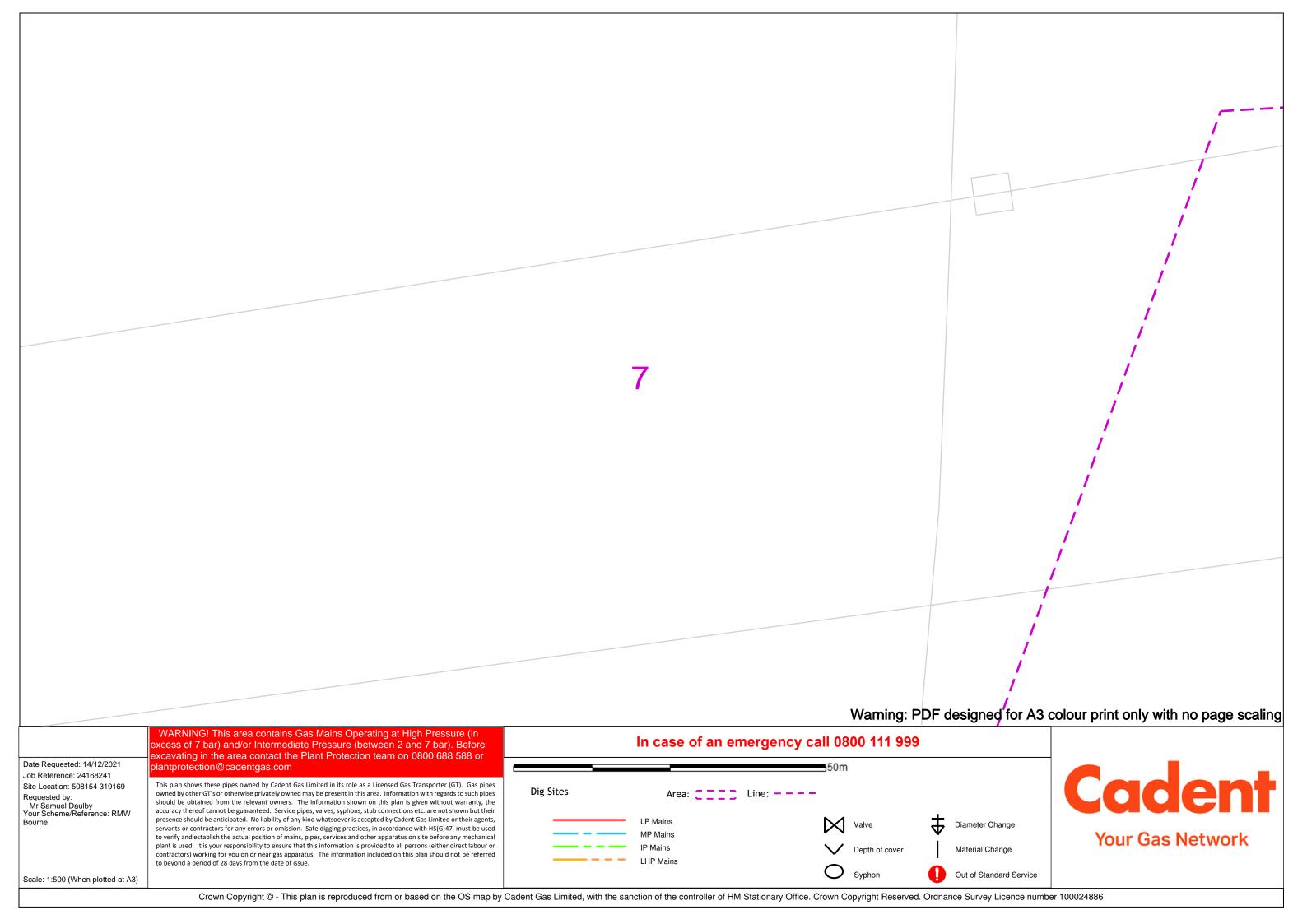


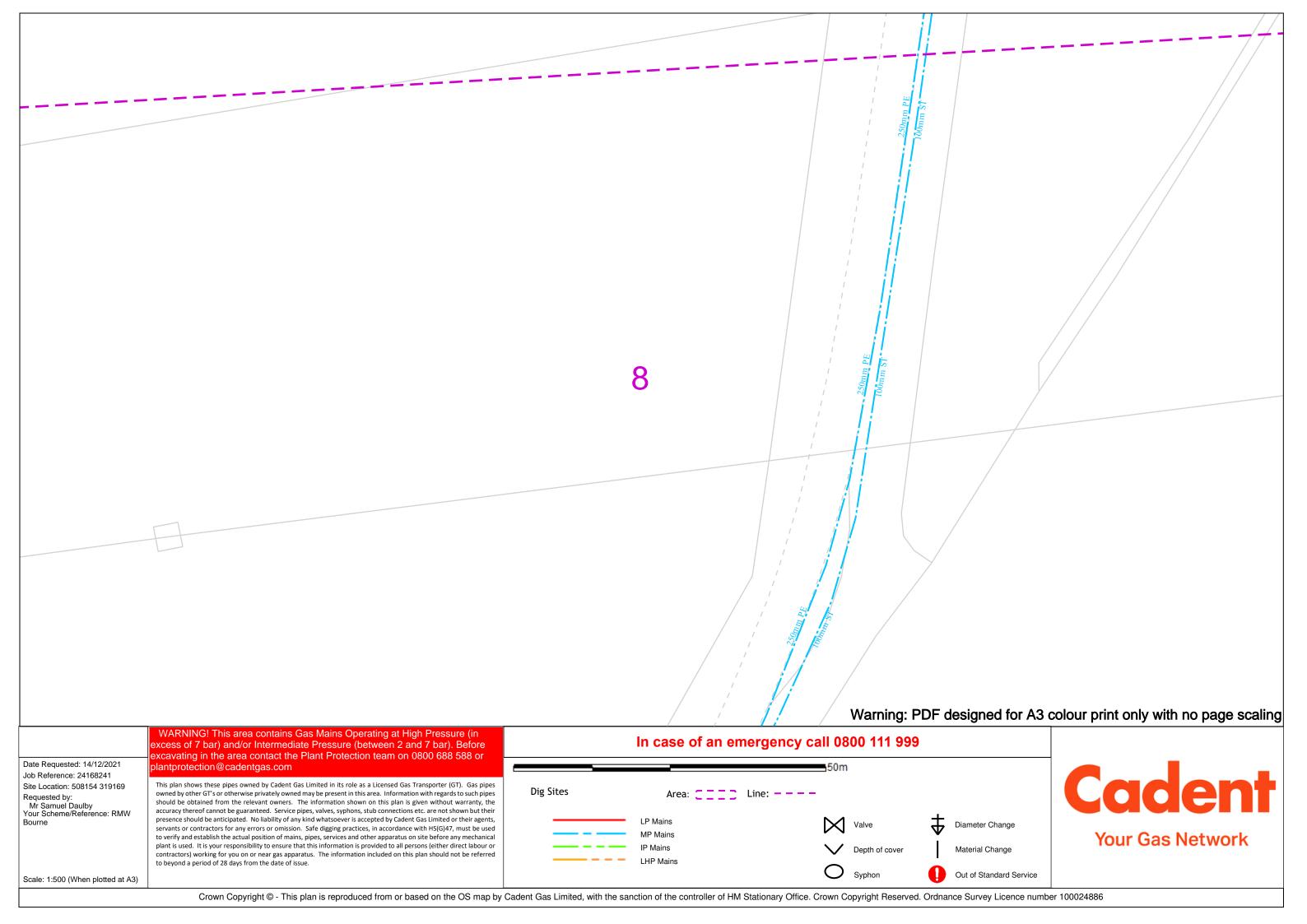


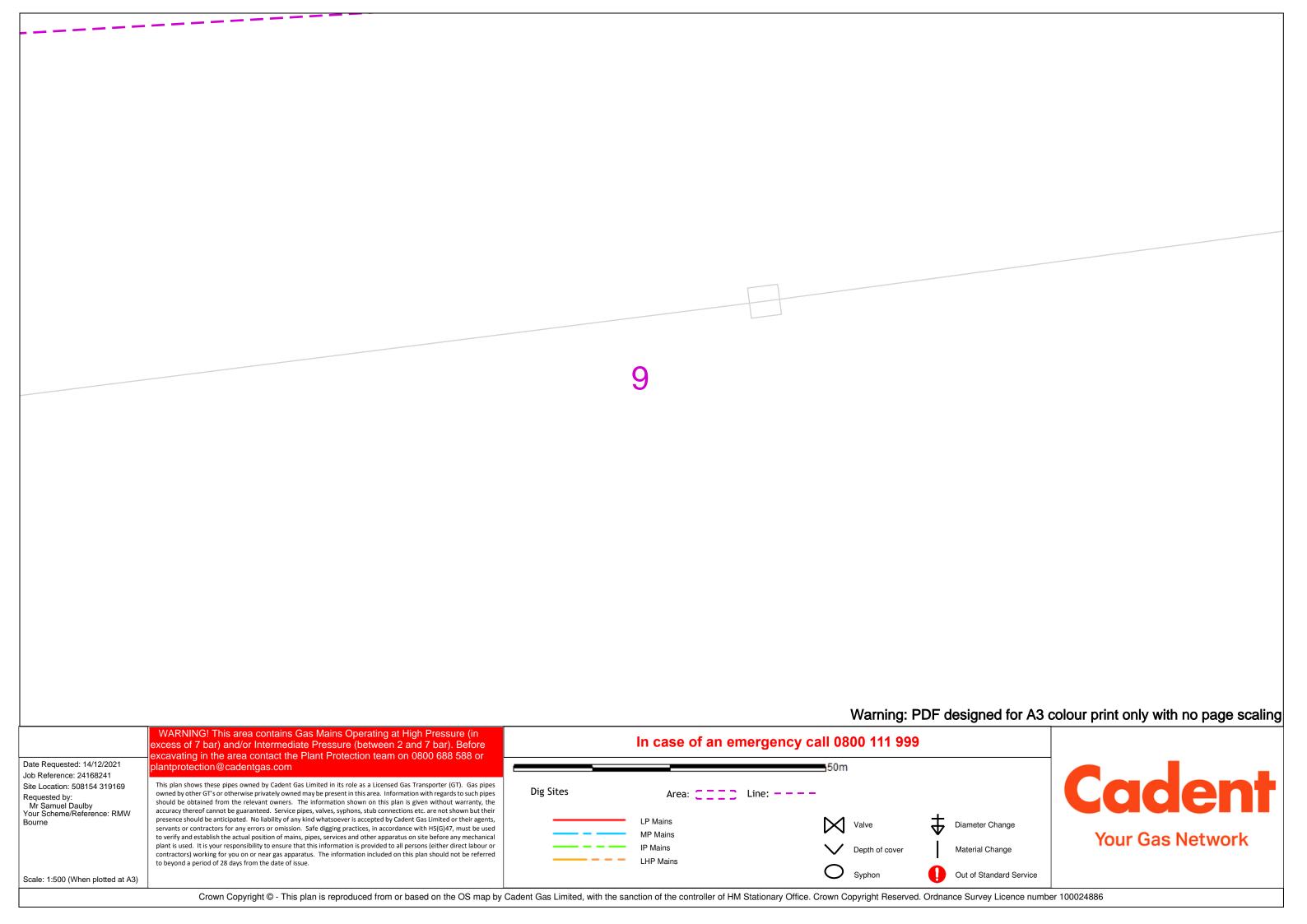


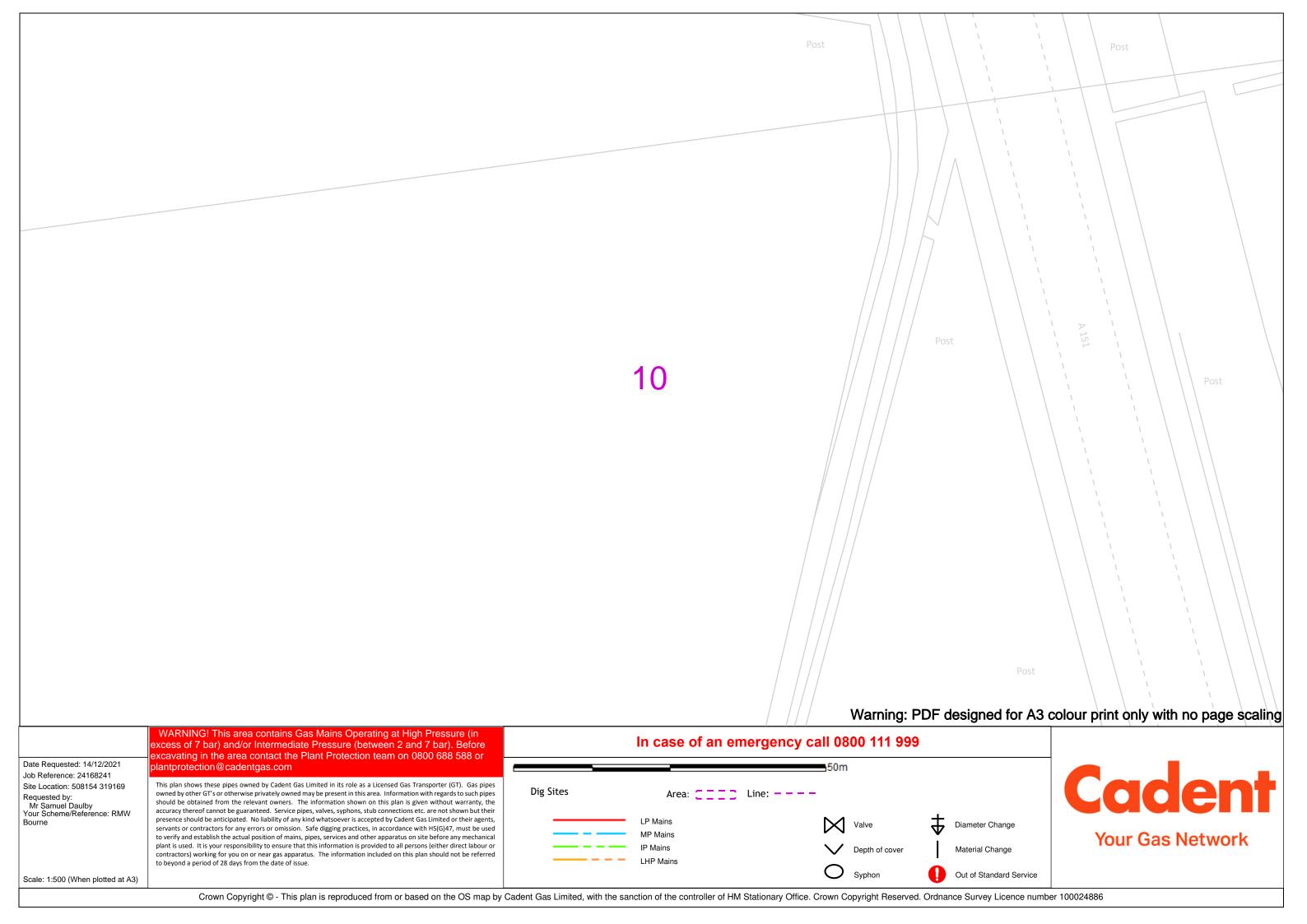




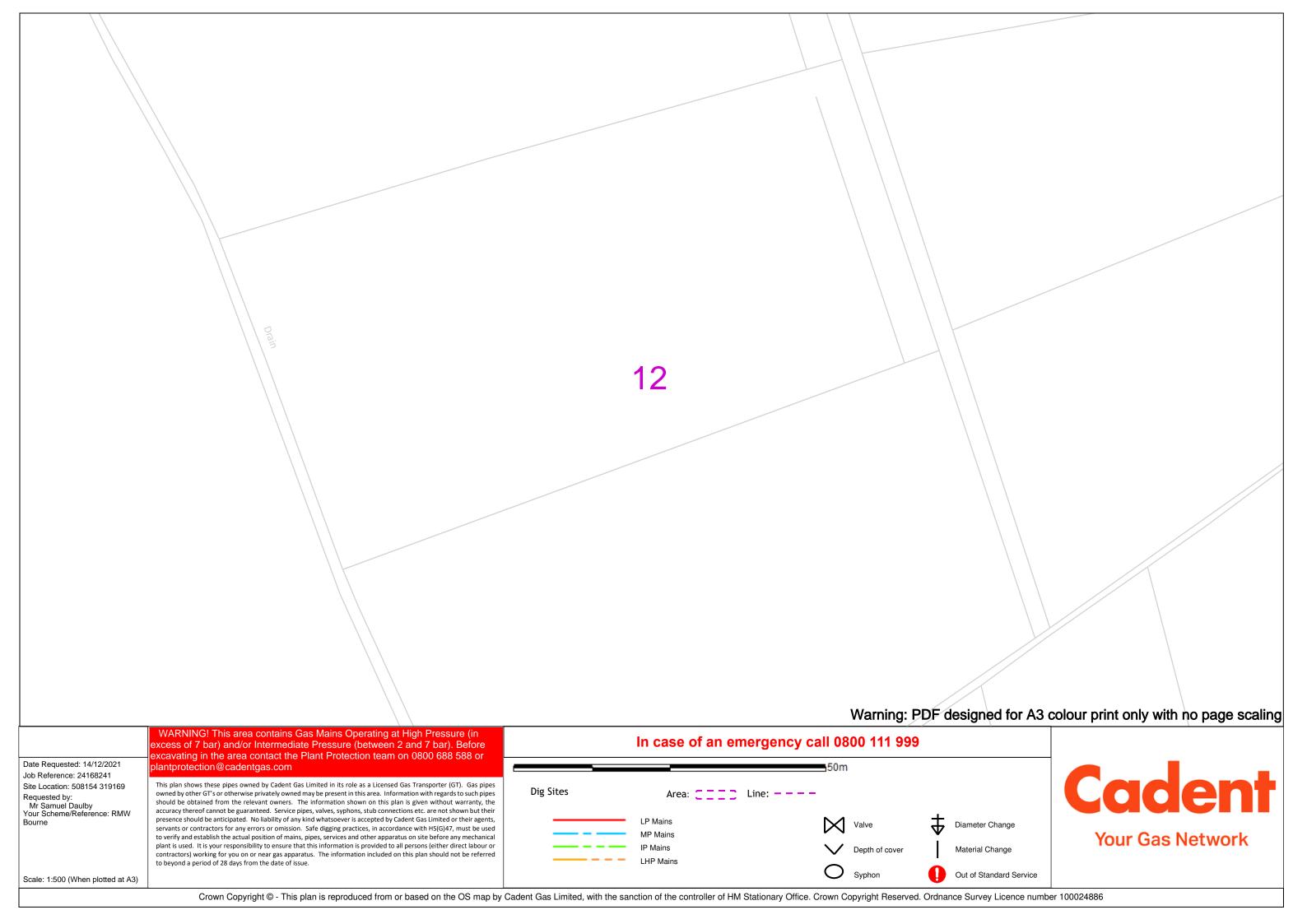


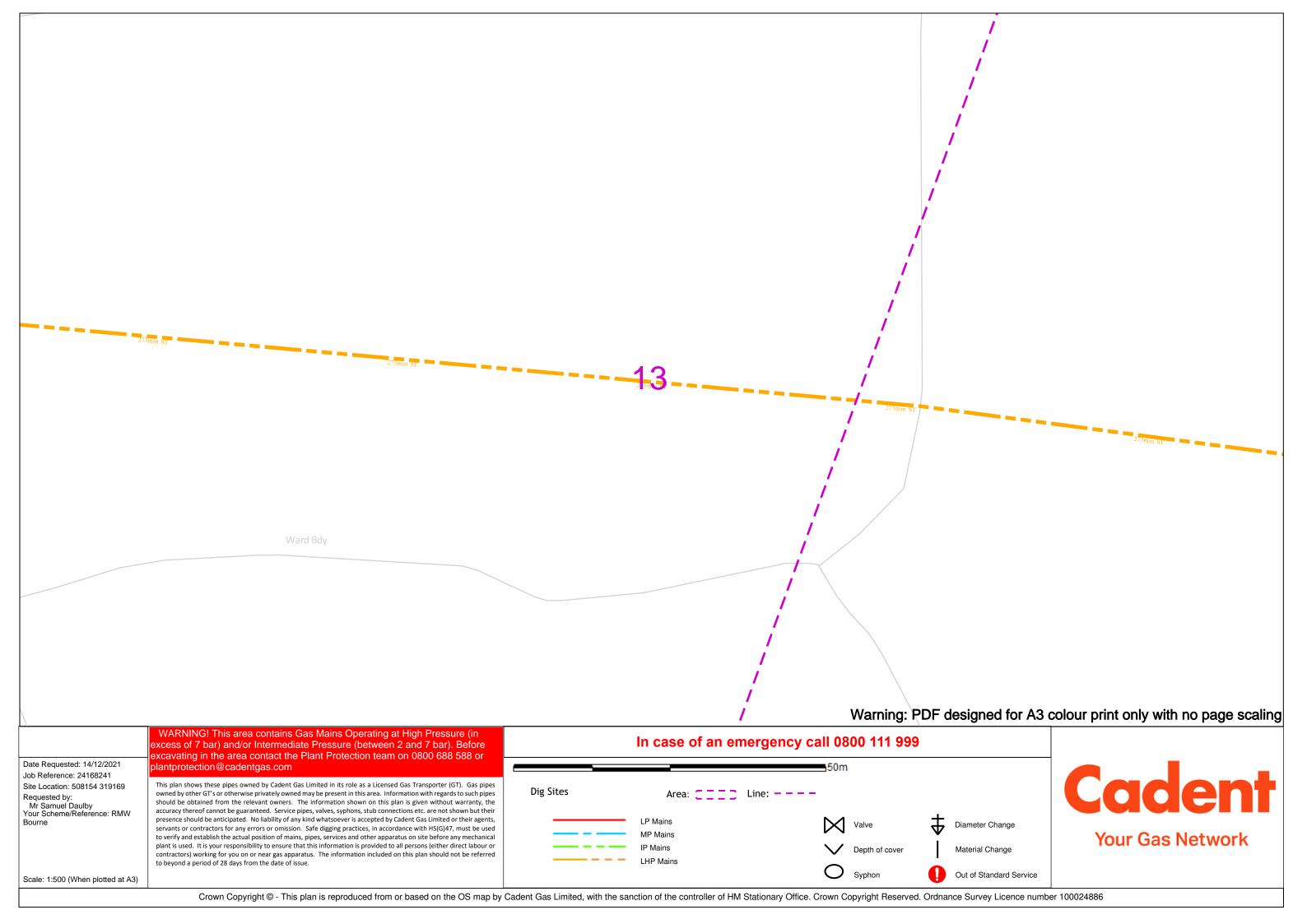


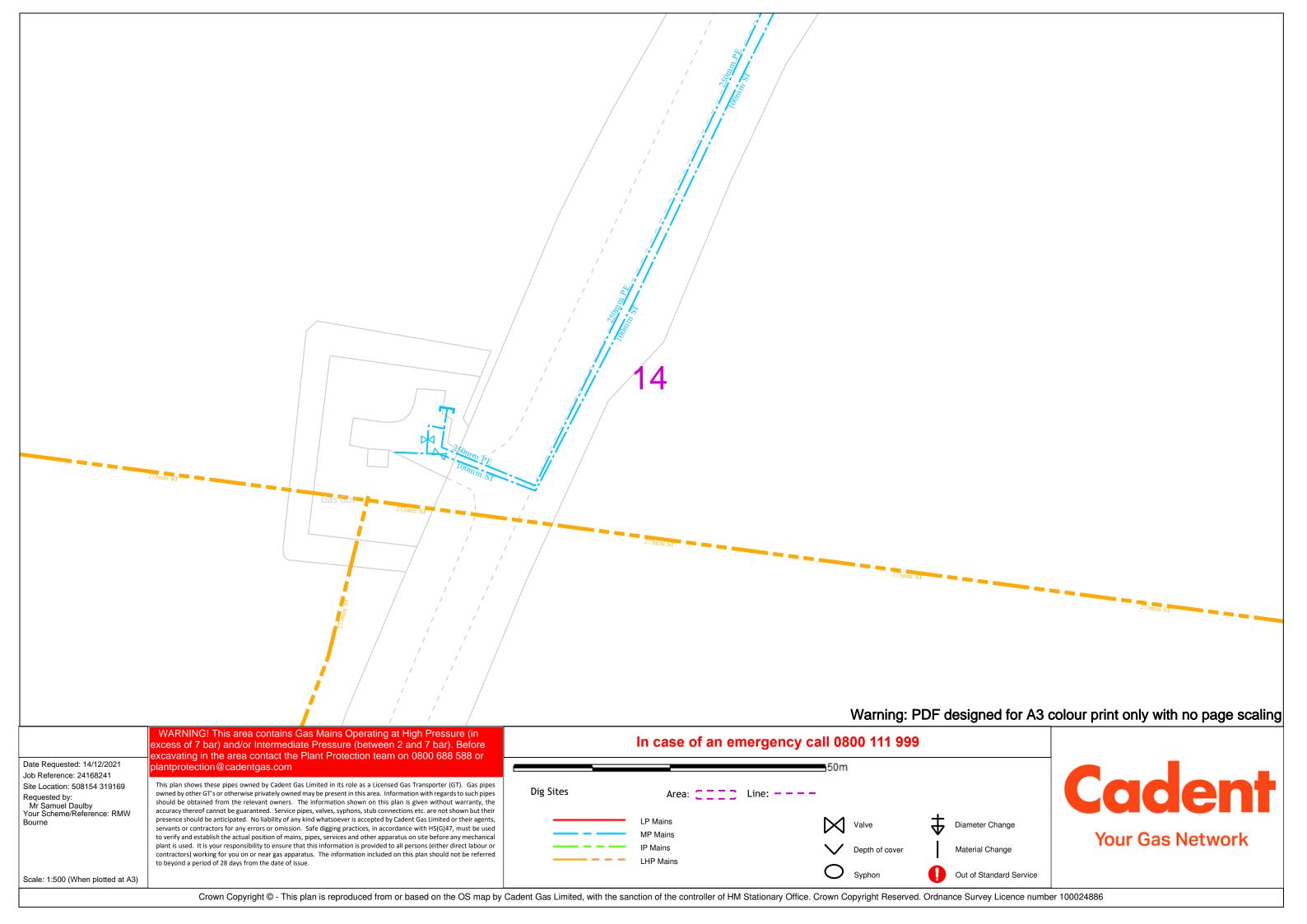


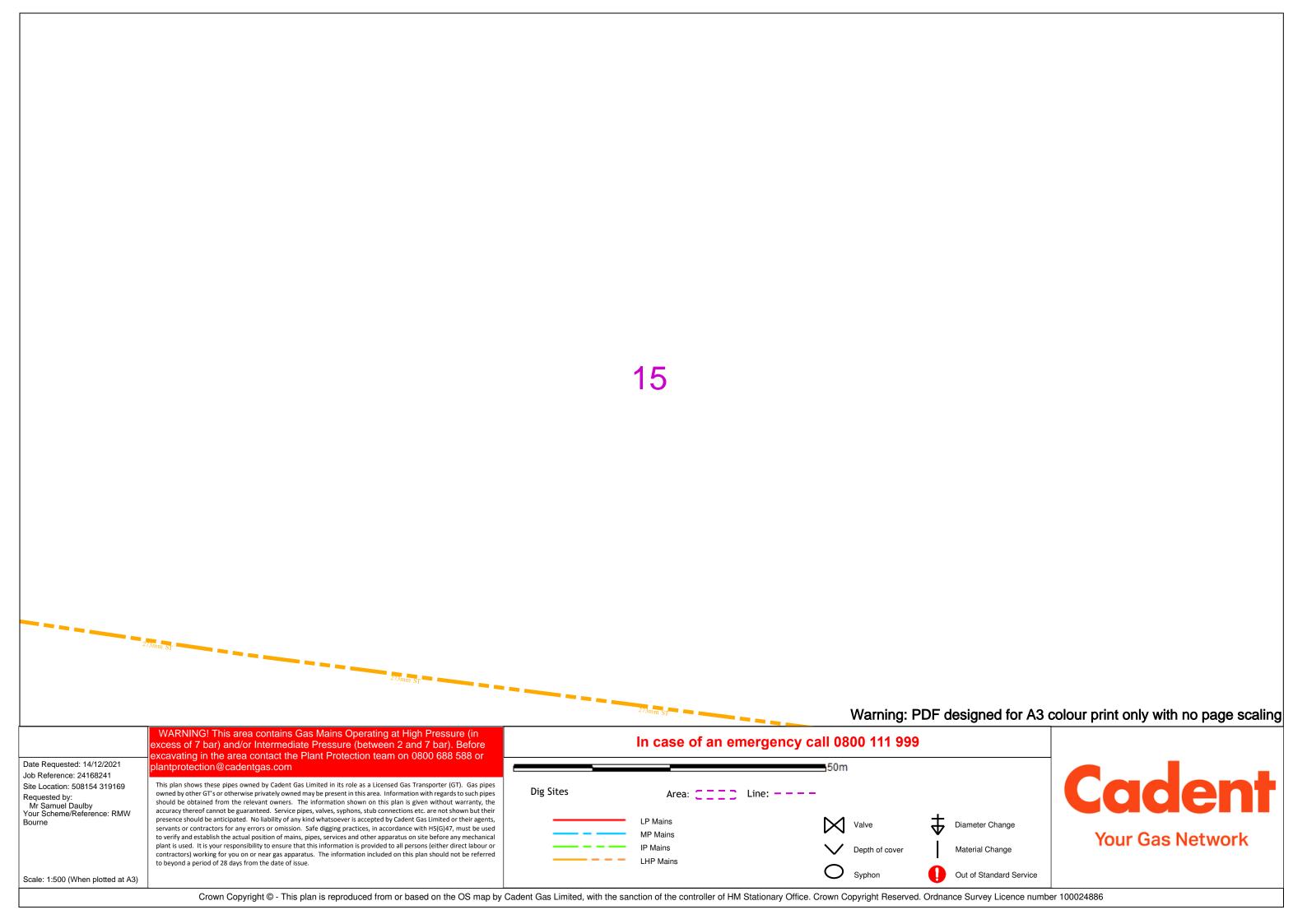


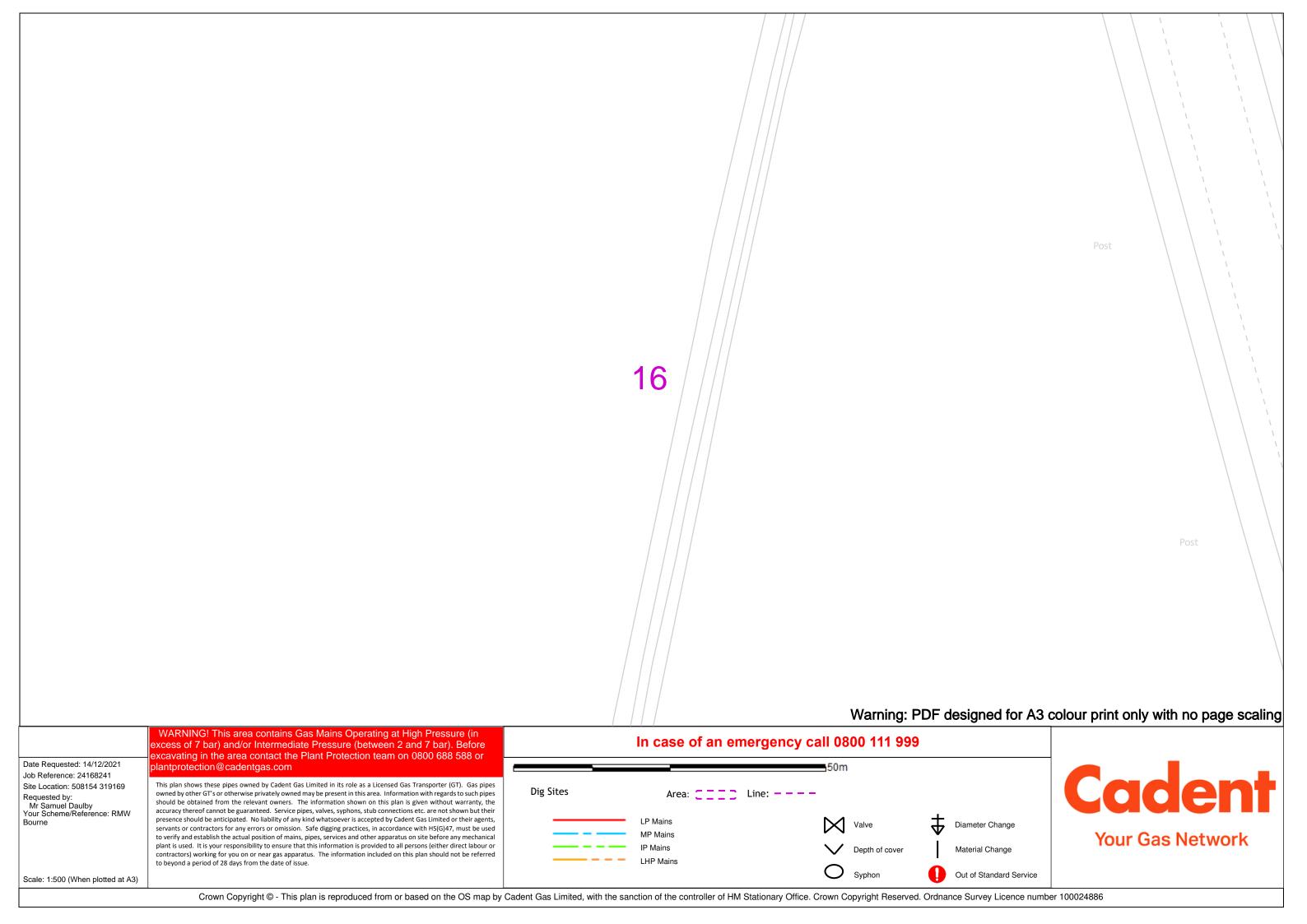
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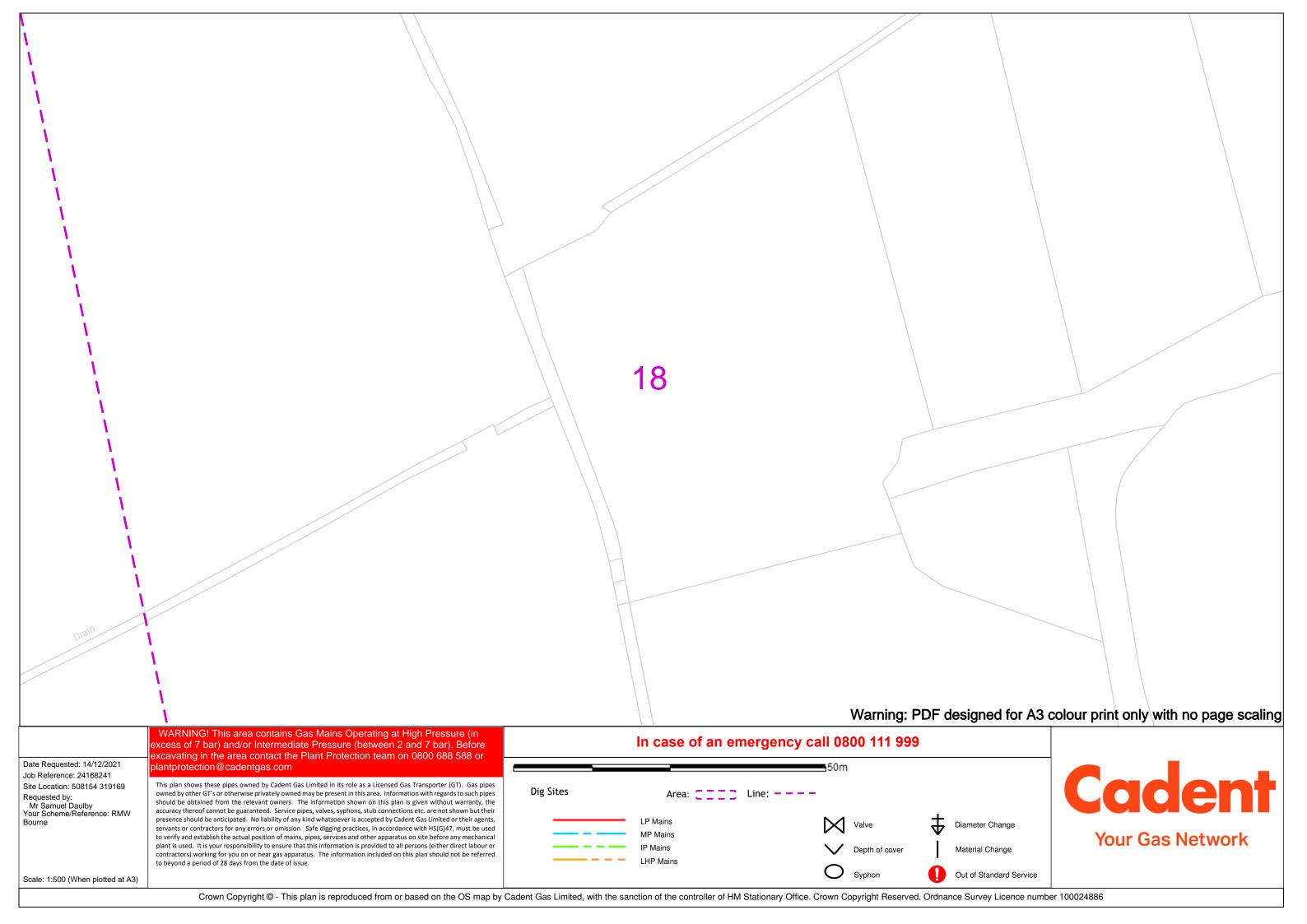


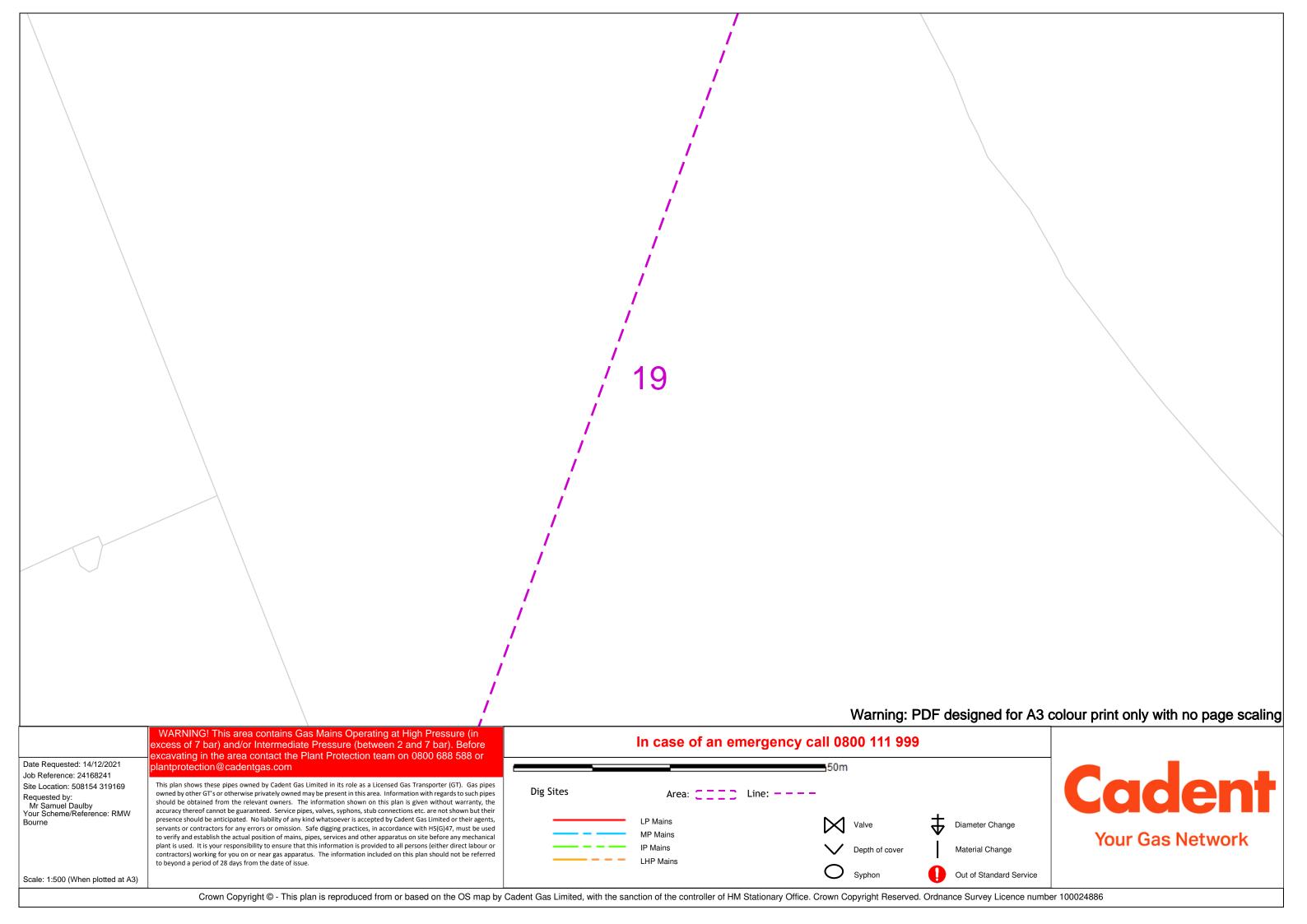


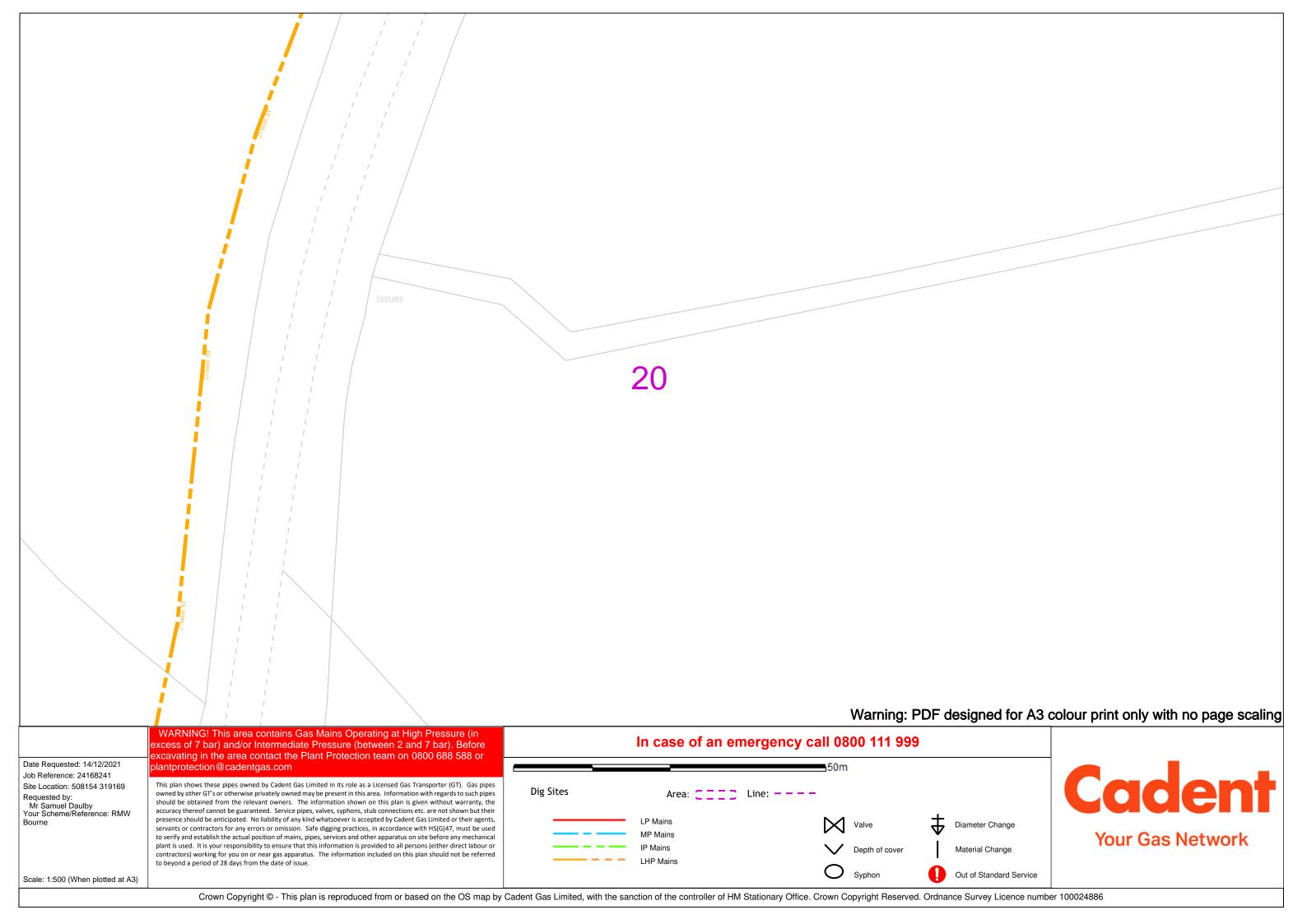


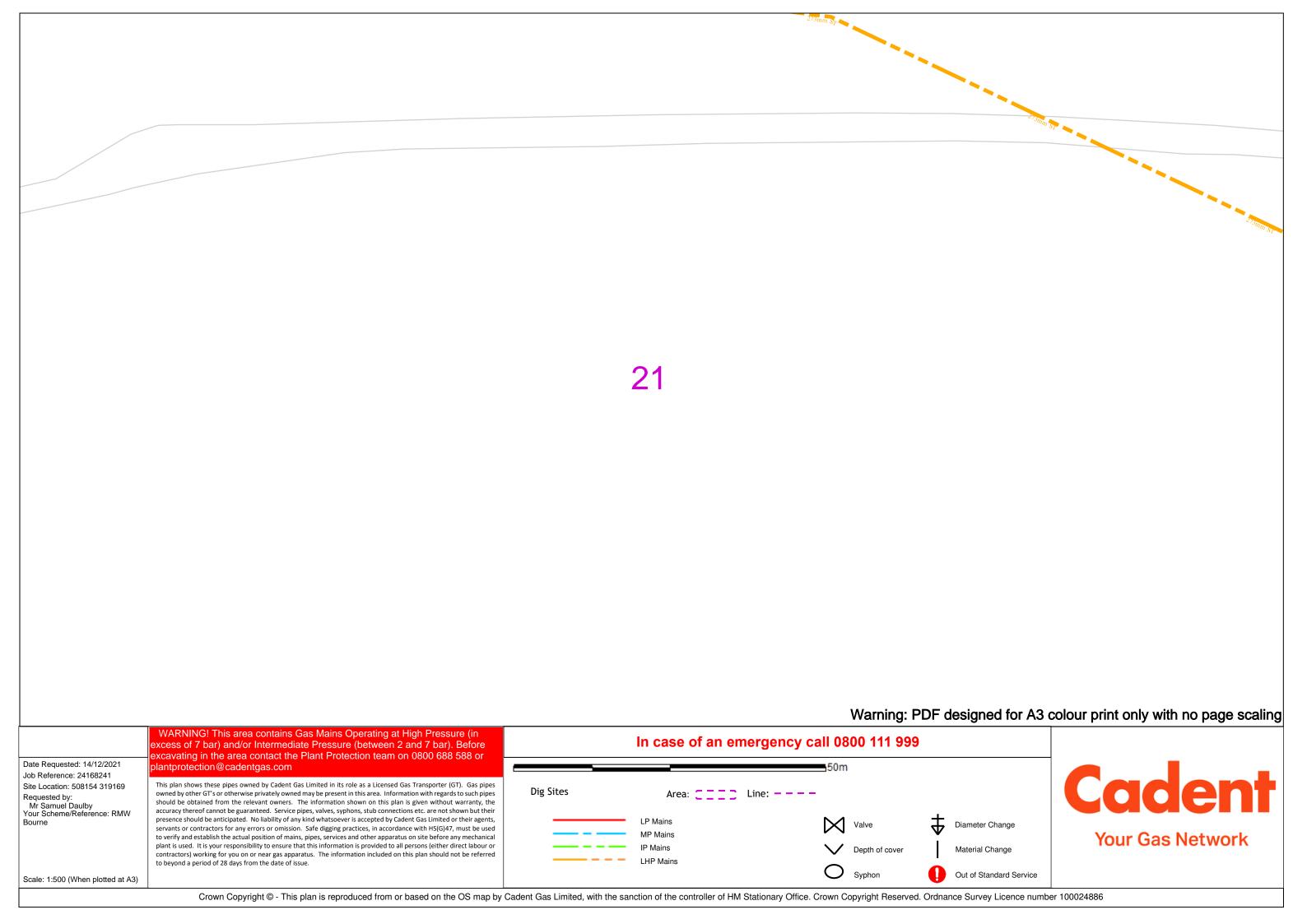


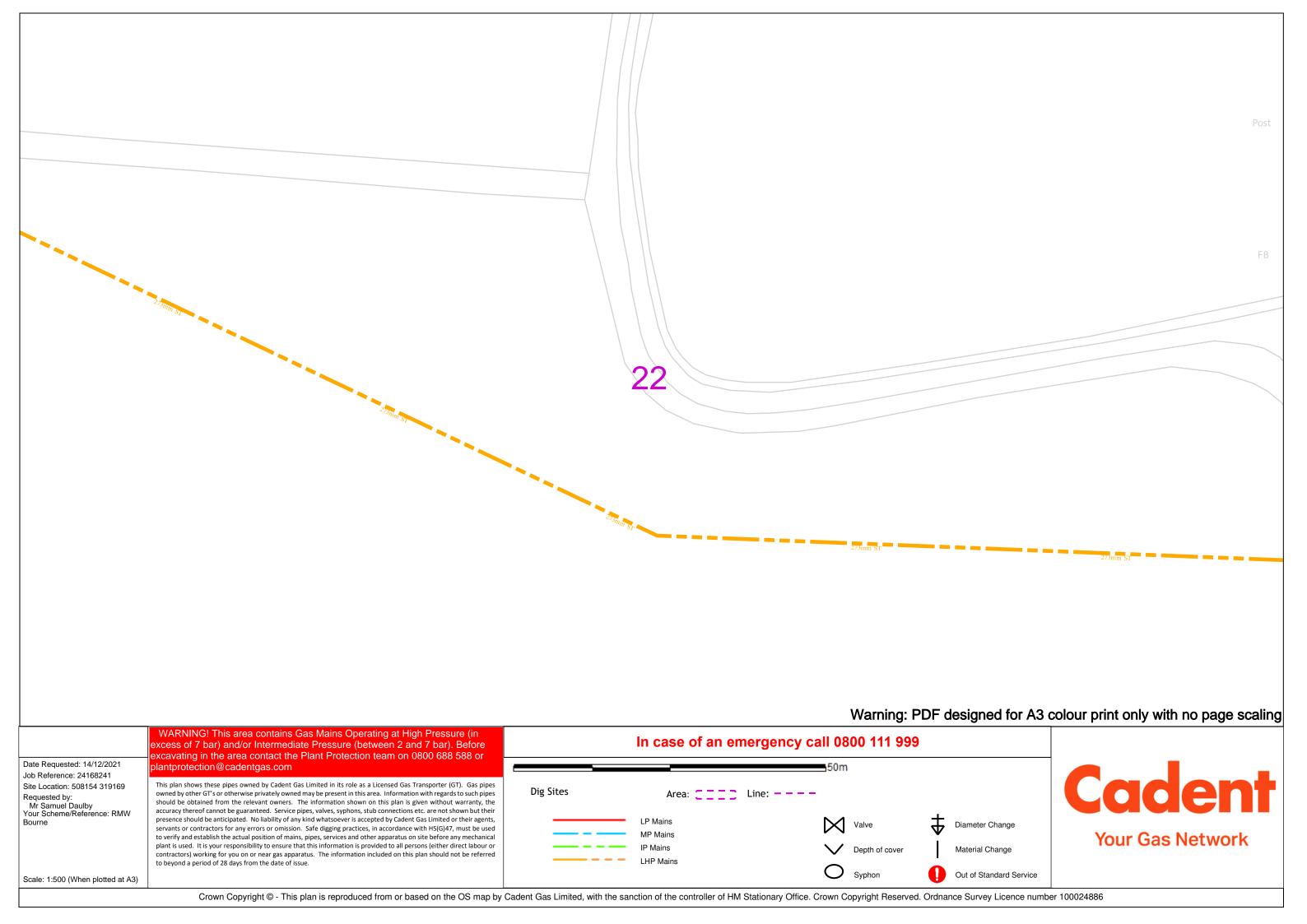
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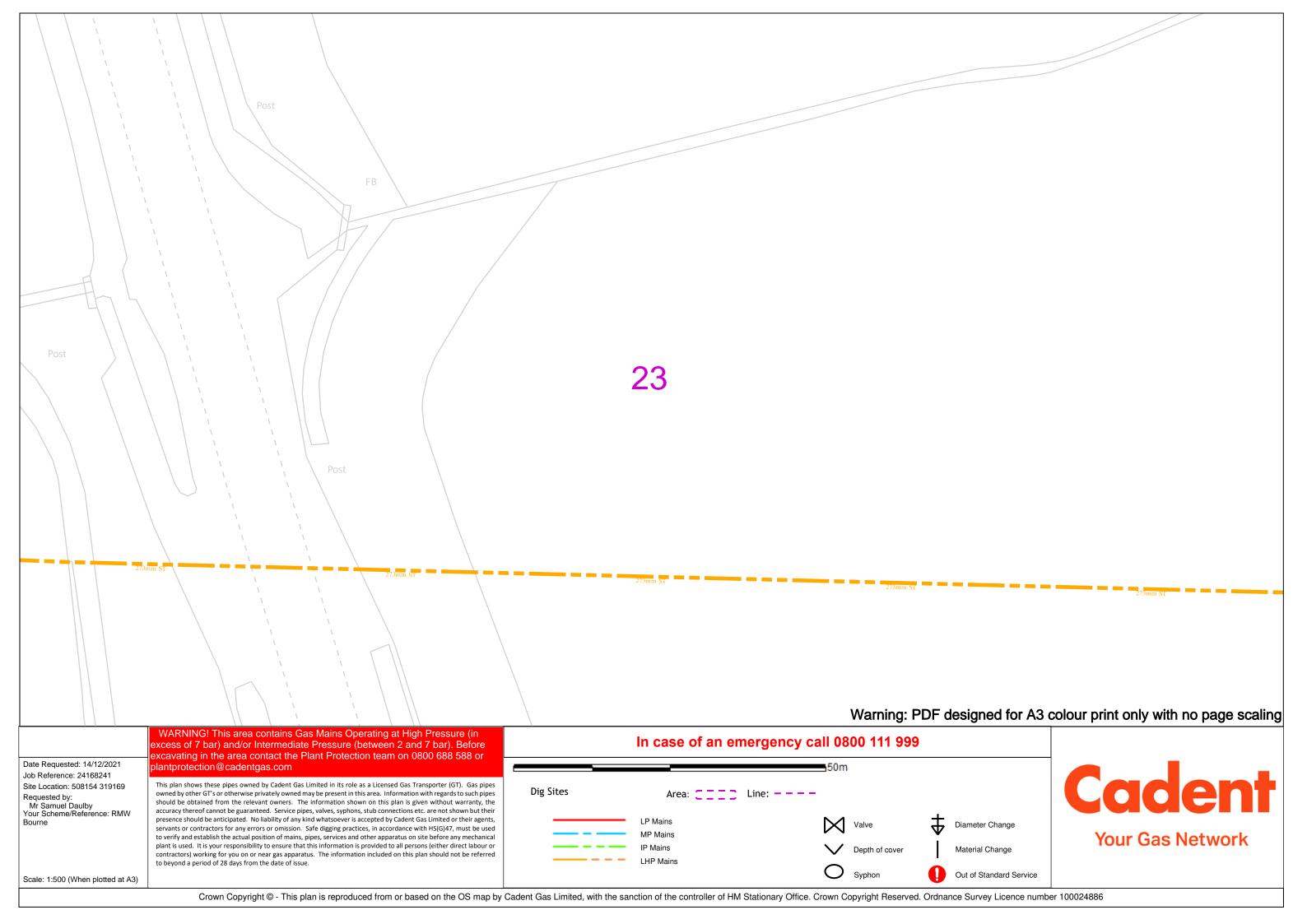


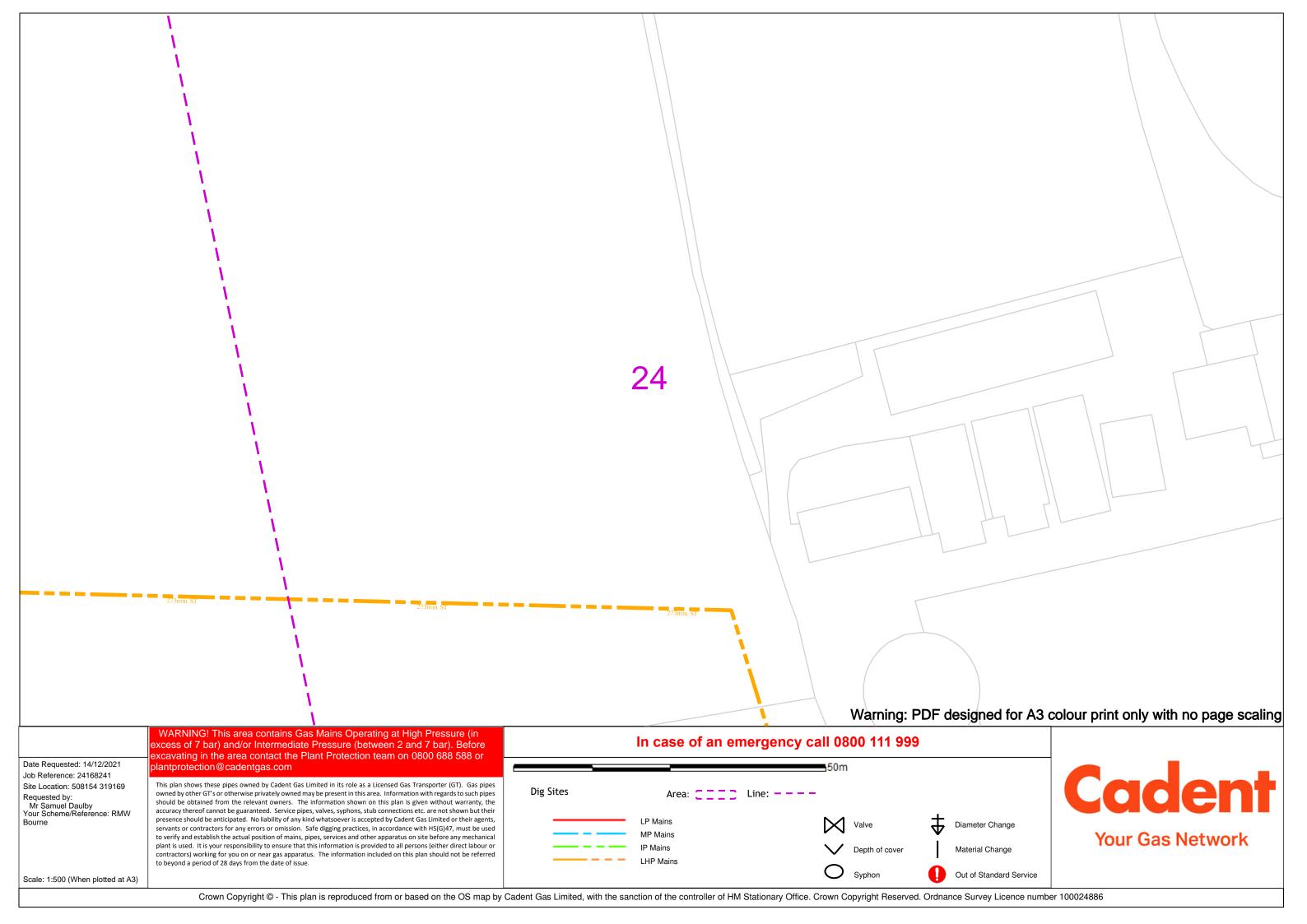


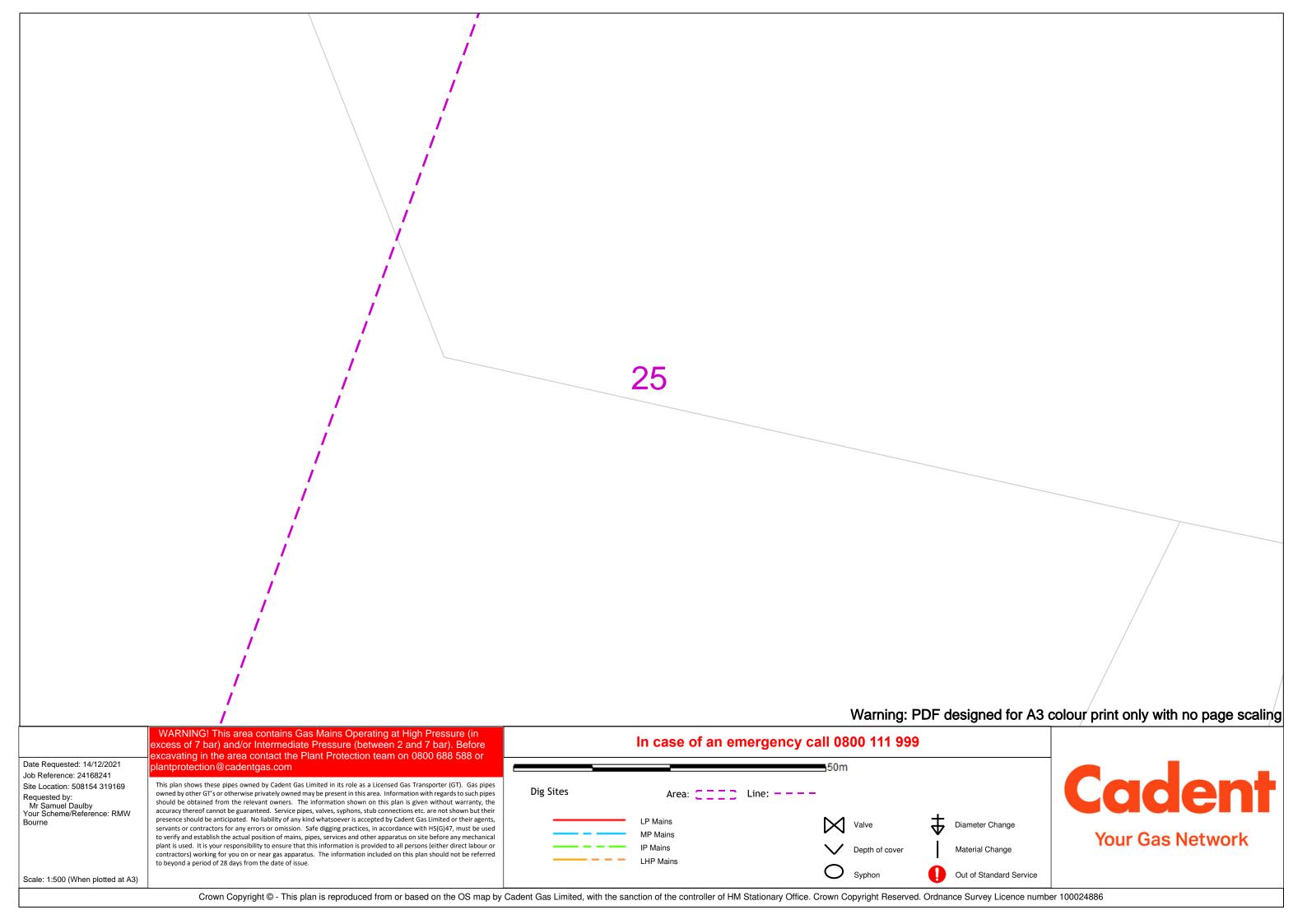


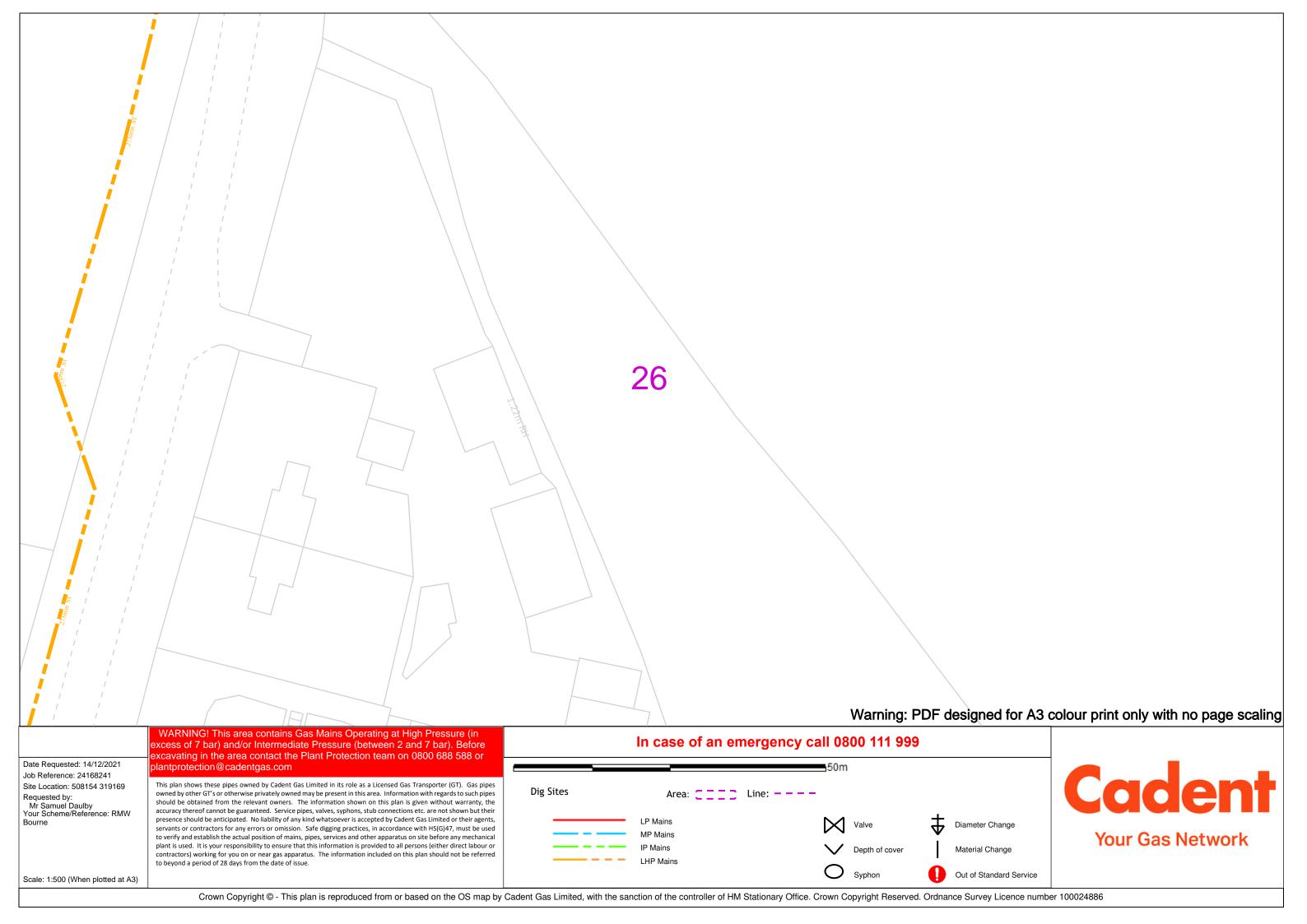














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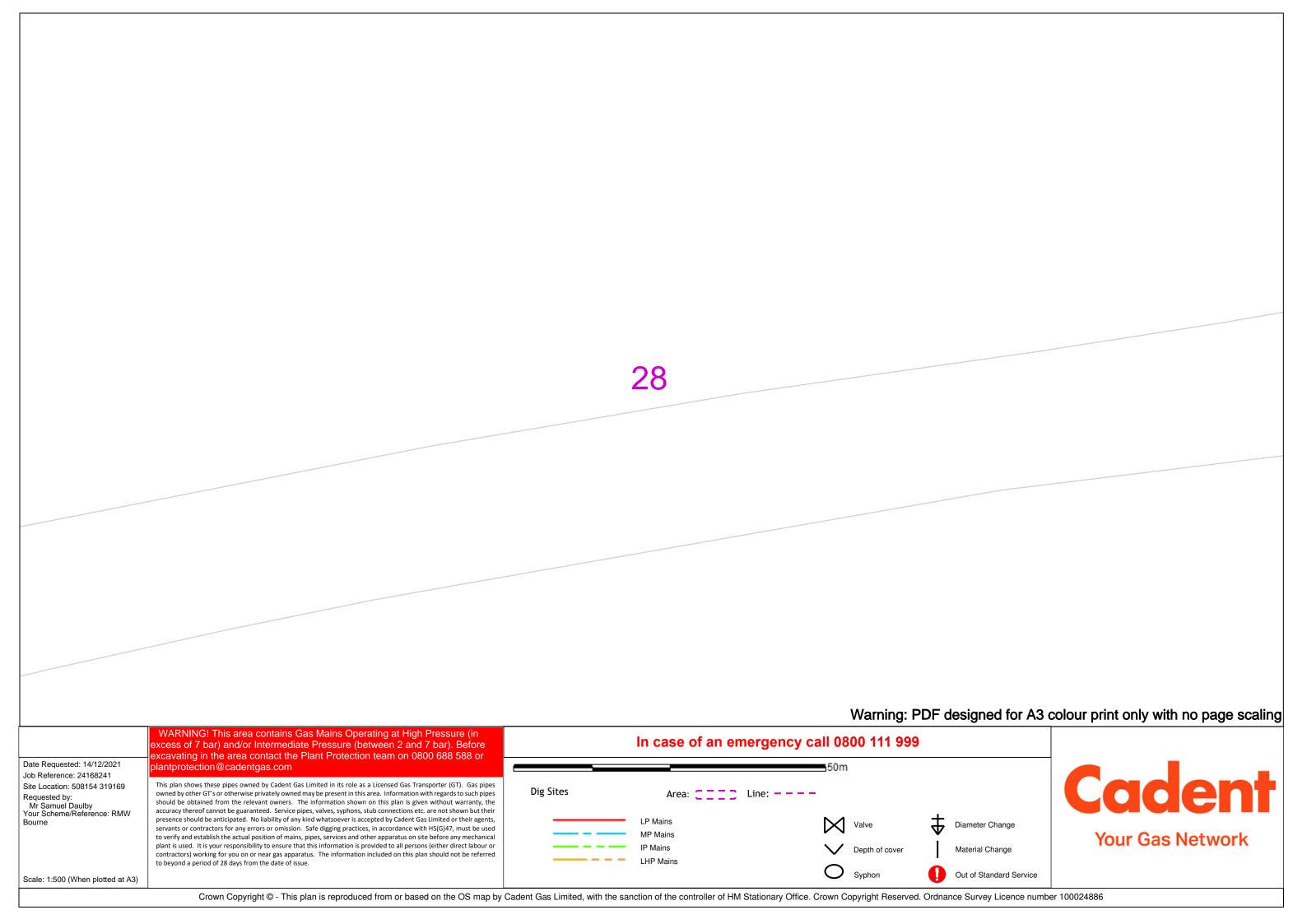
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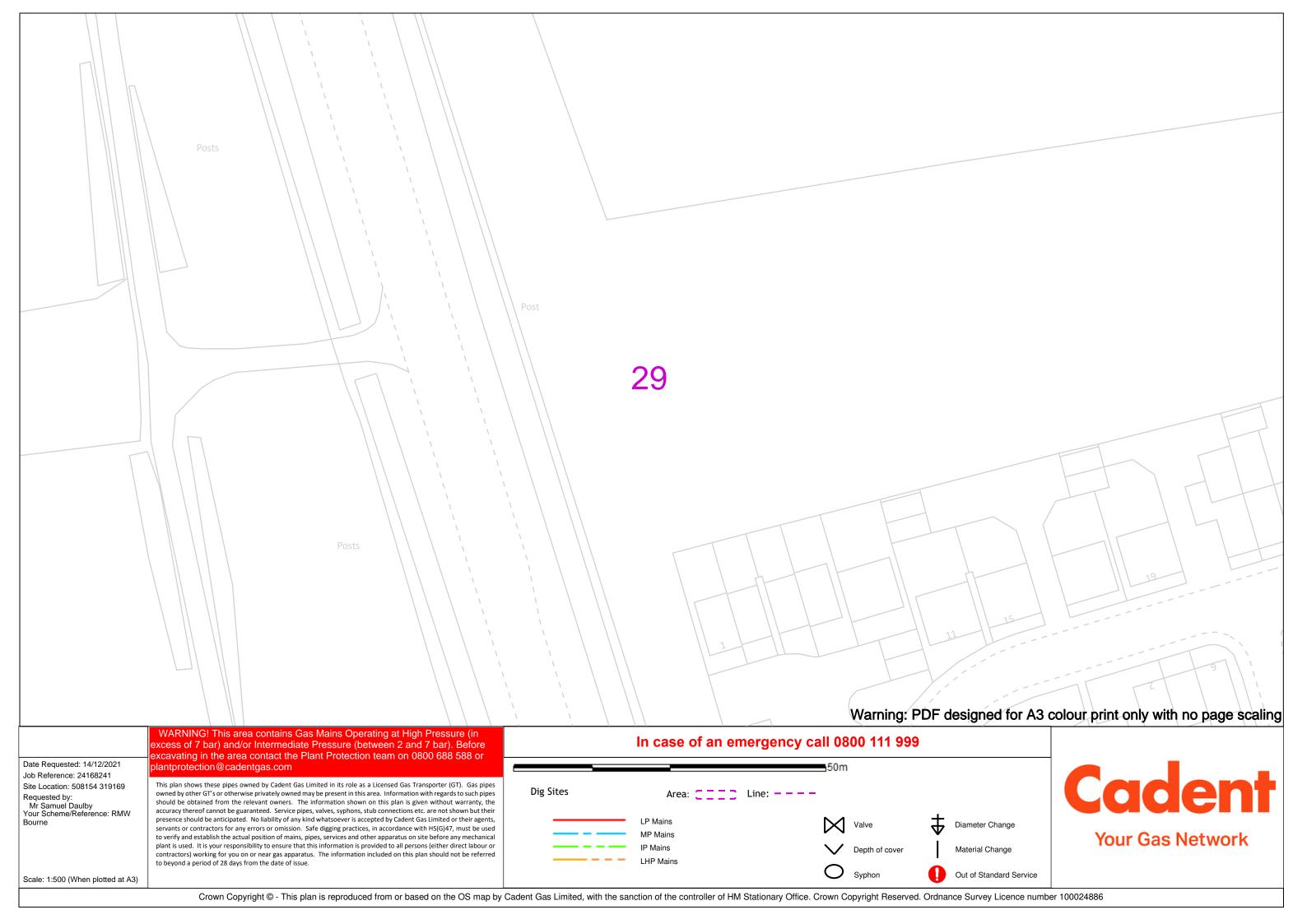
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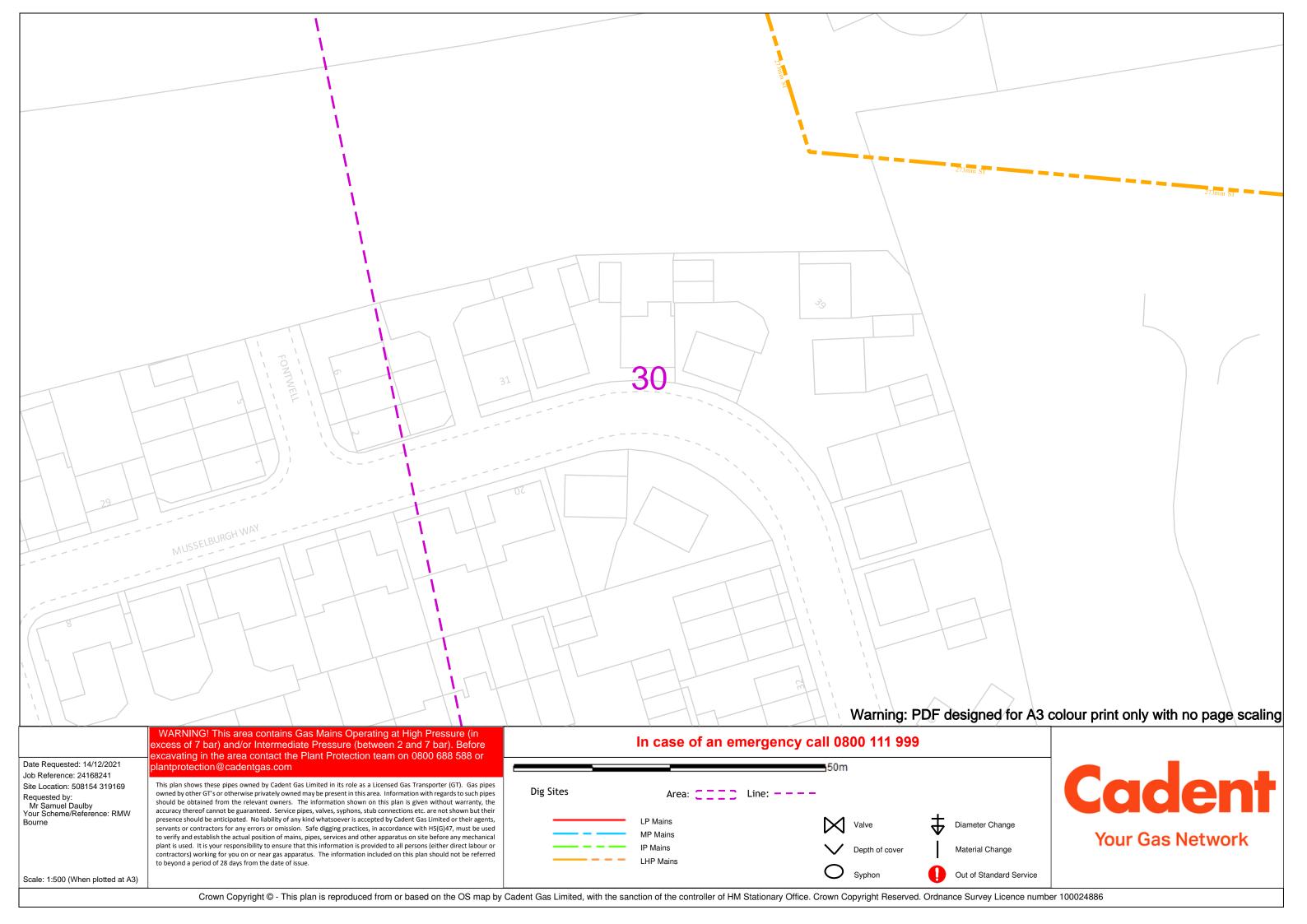
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Cadent
Your Gas Network

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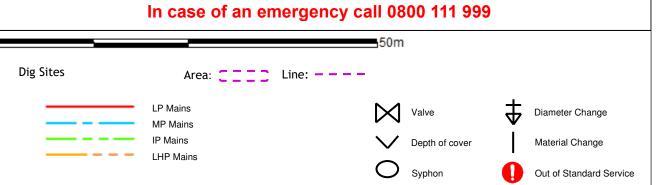
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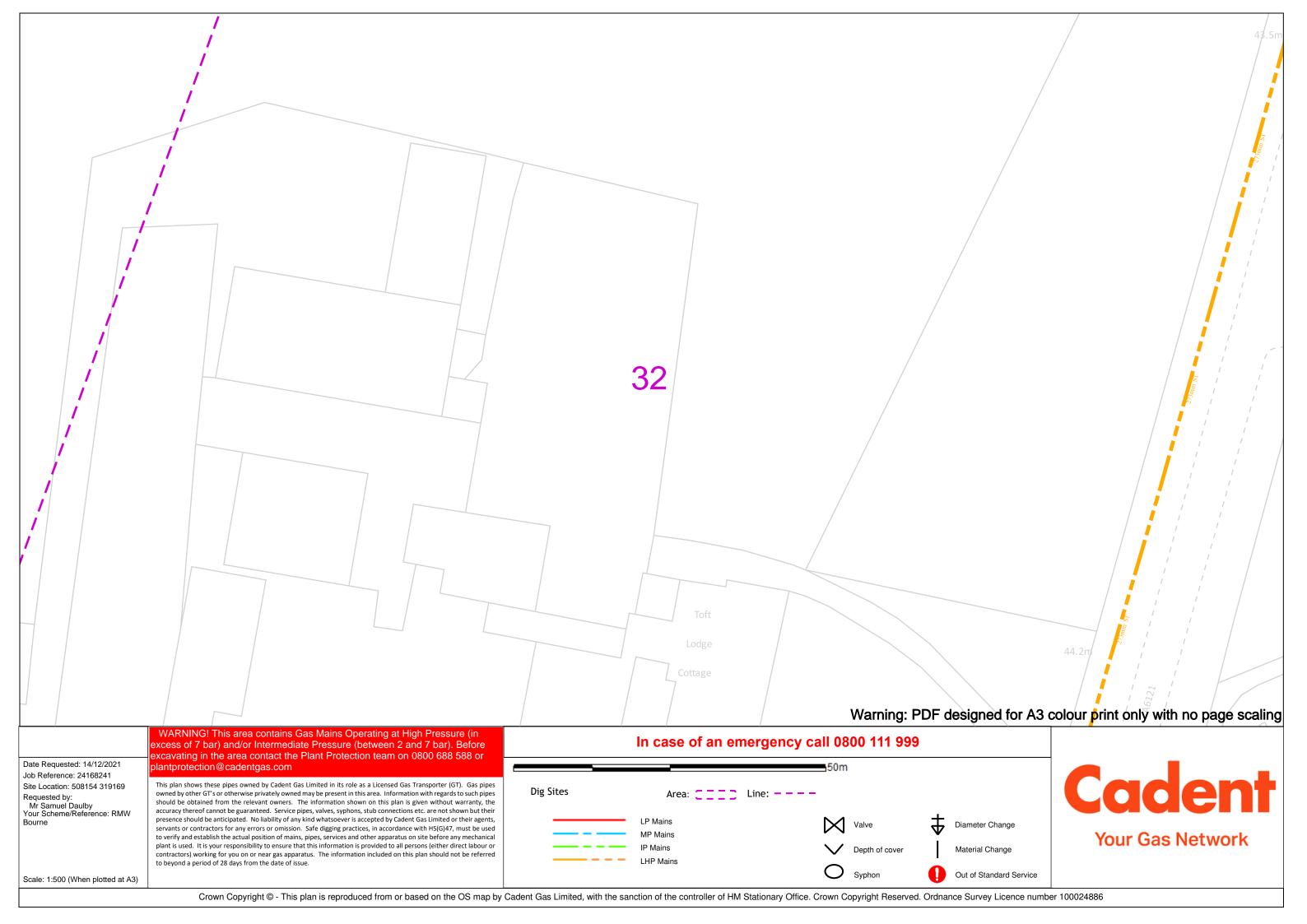
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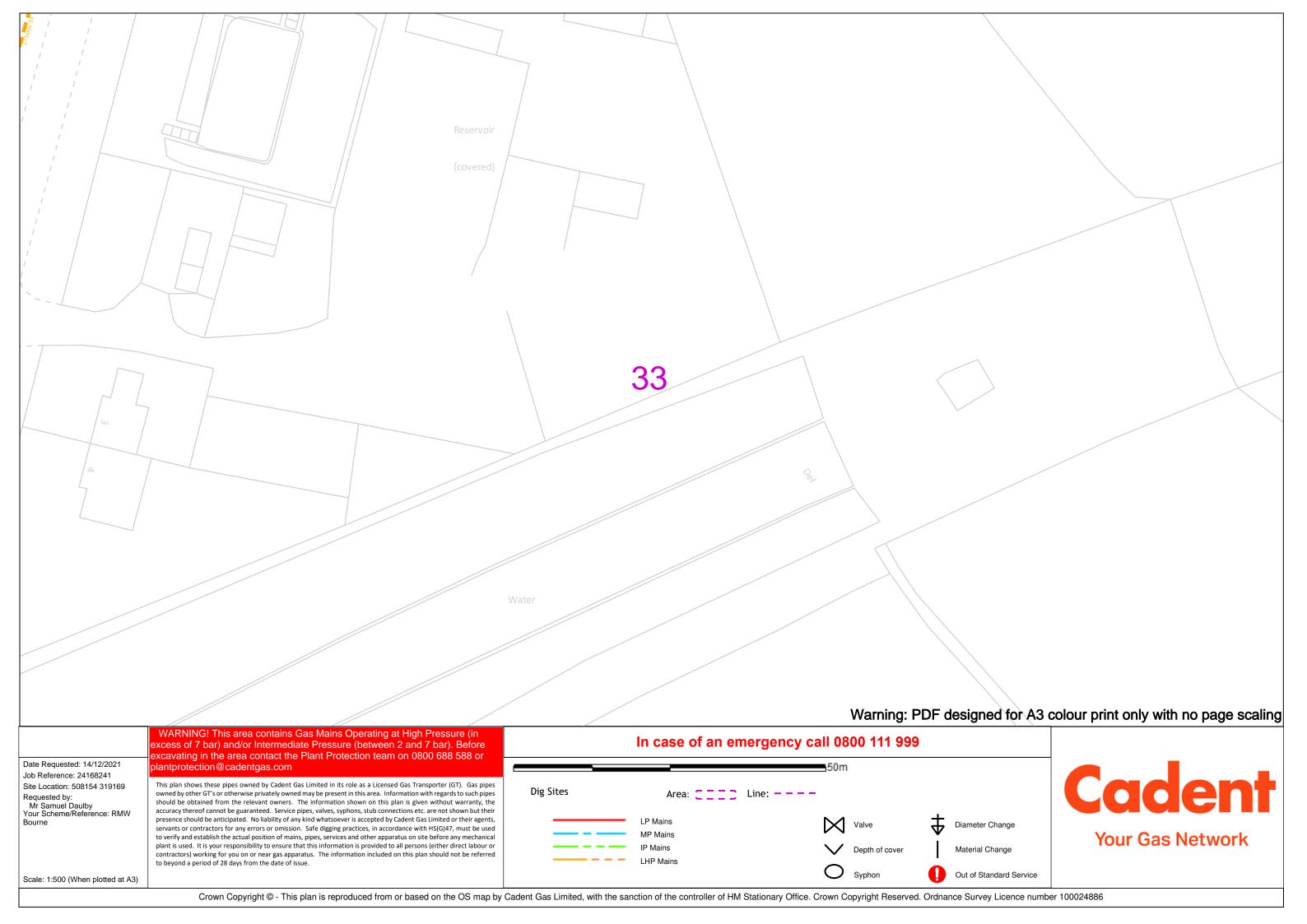
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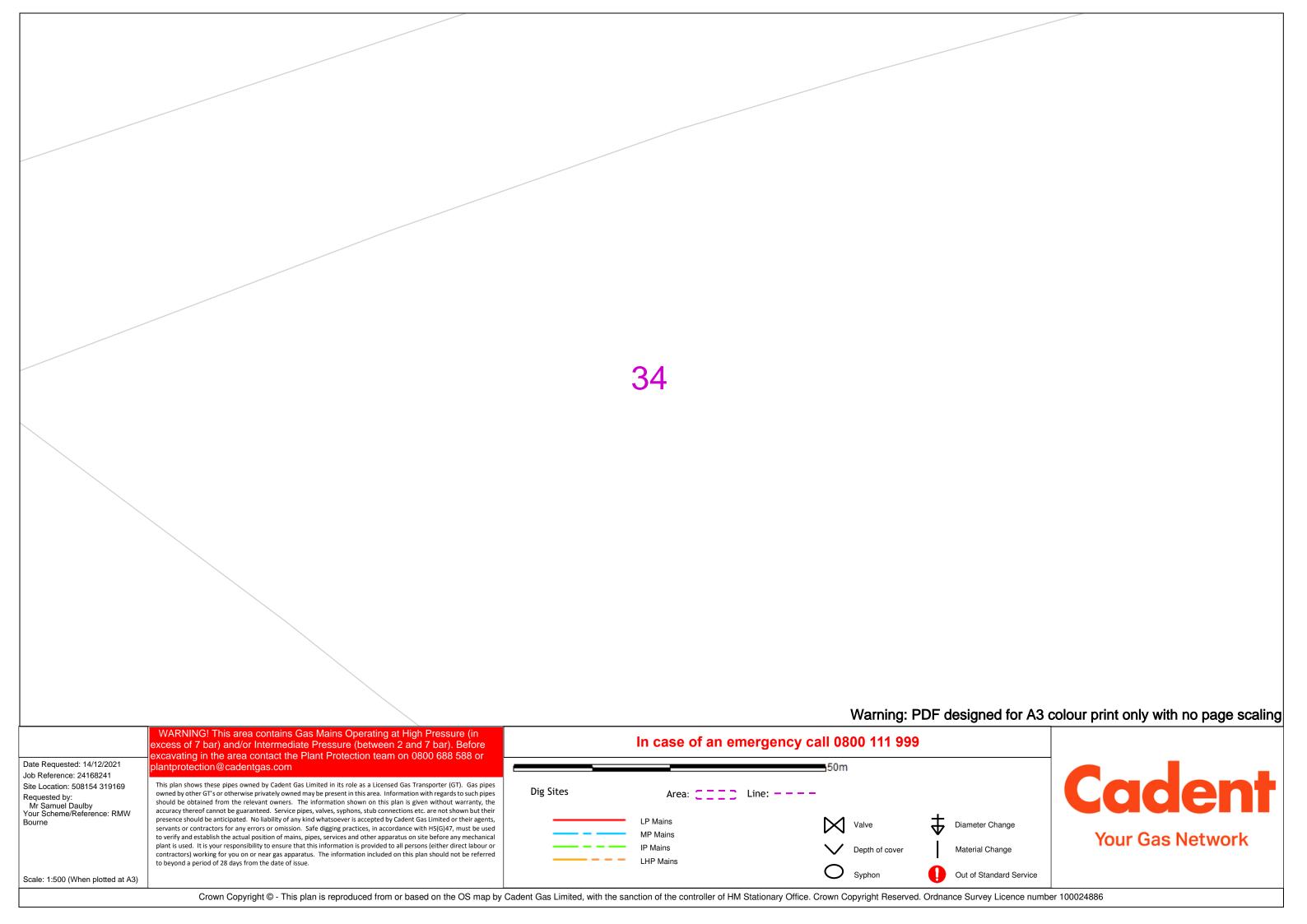
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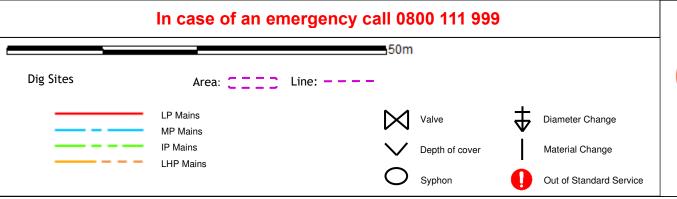
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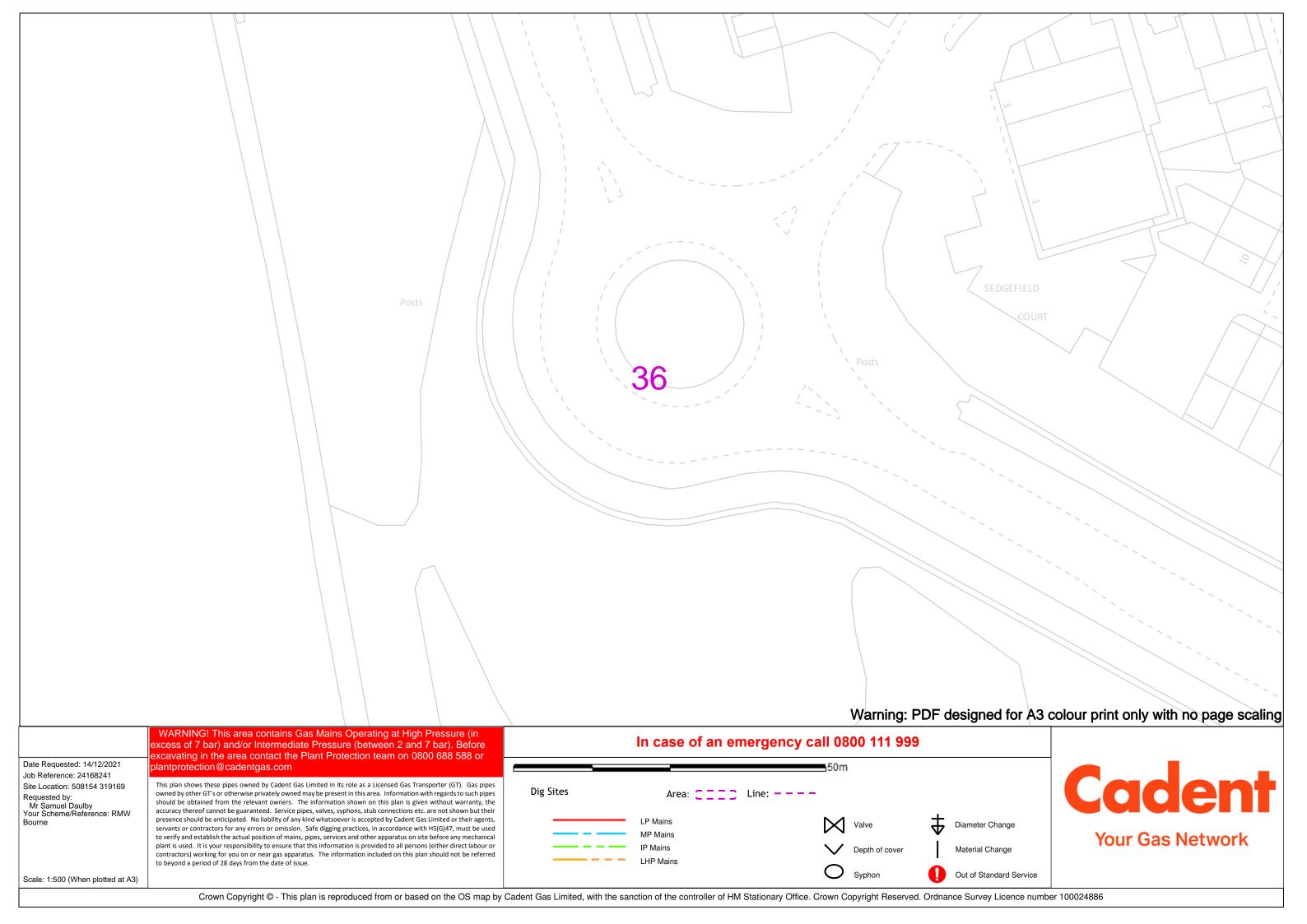
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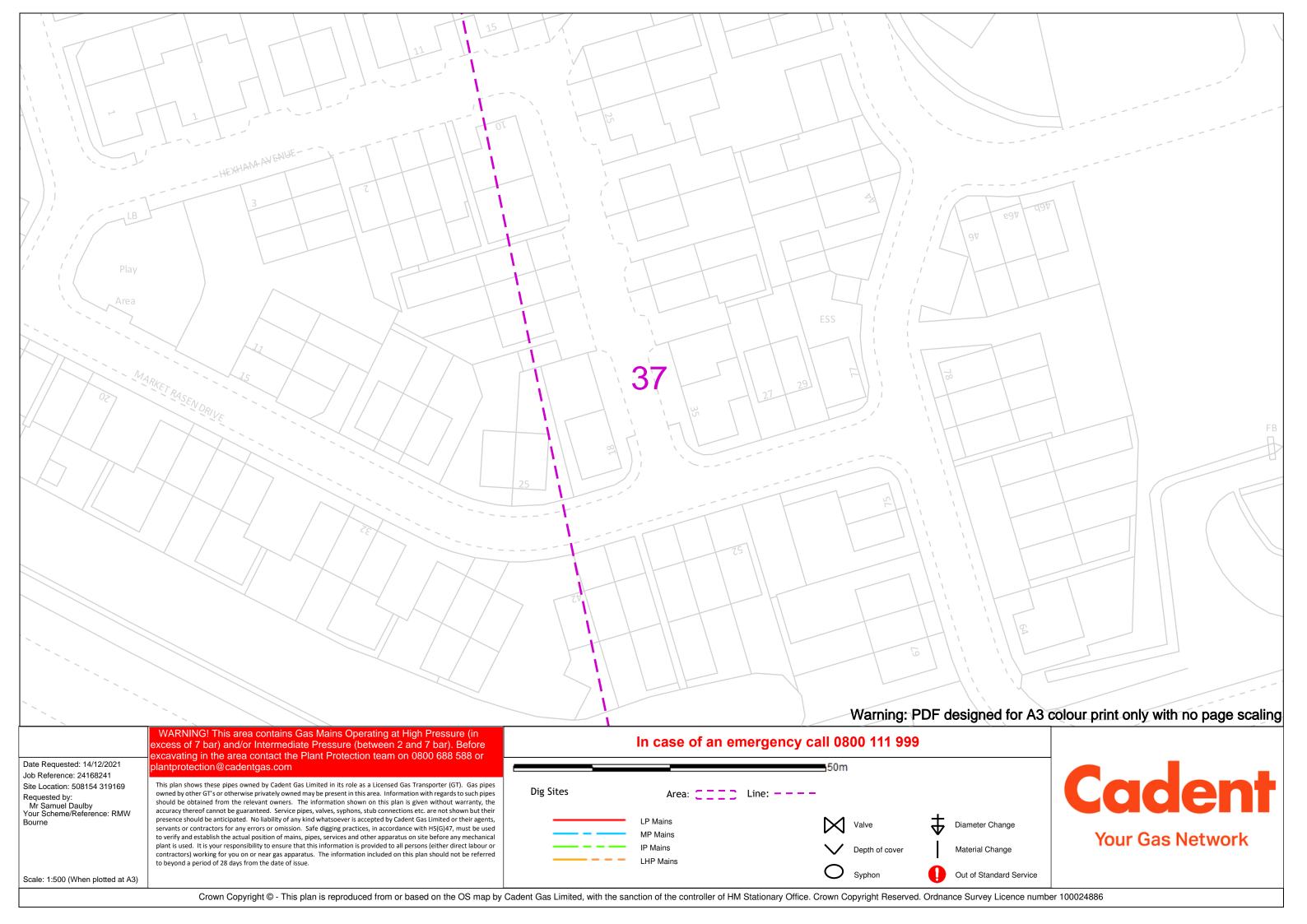
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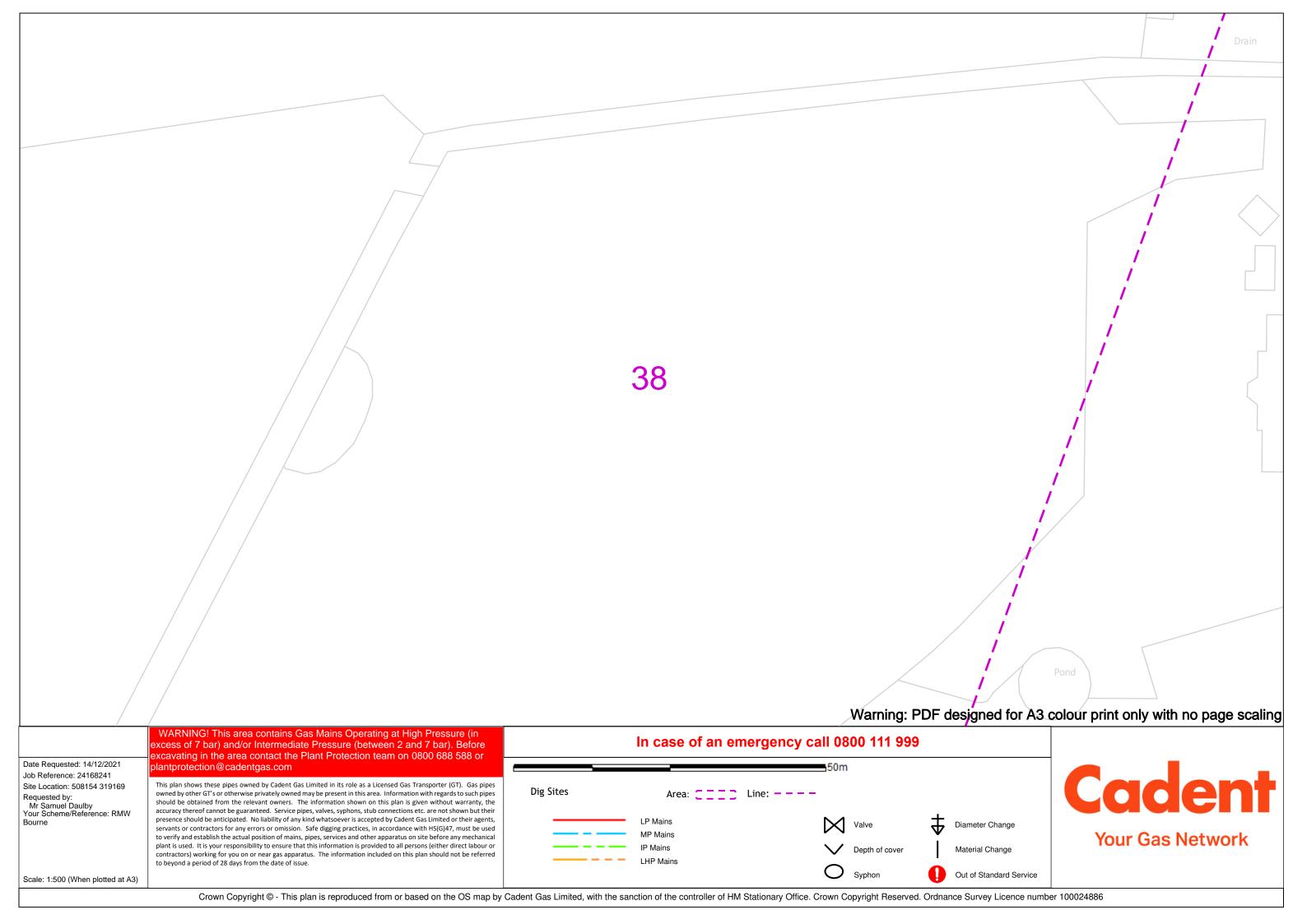
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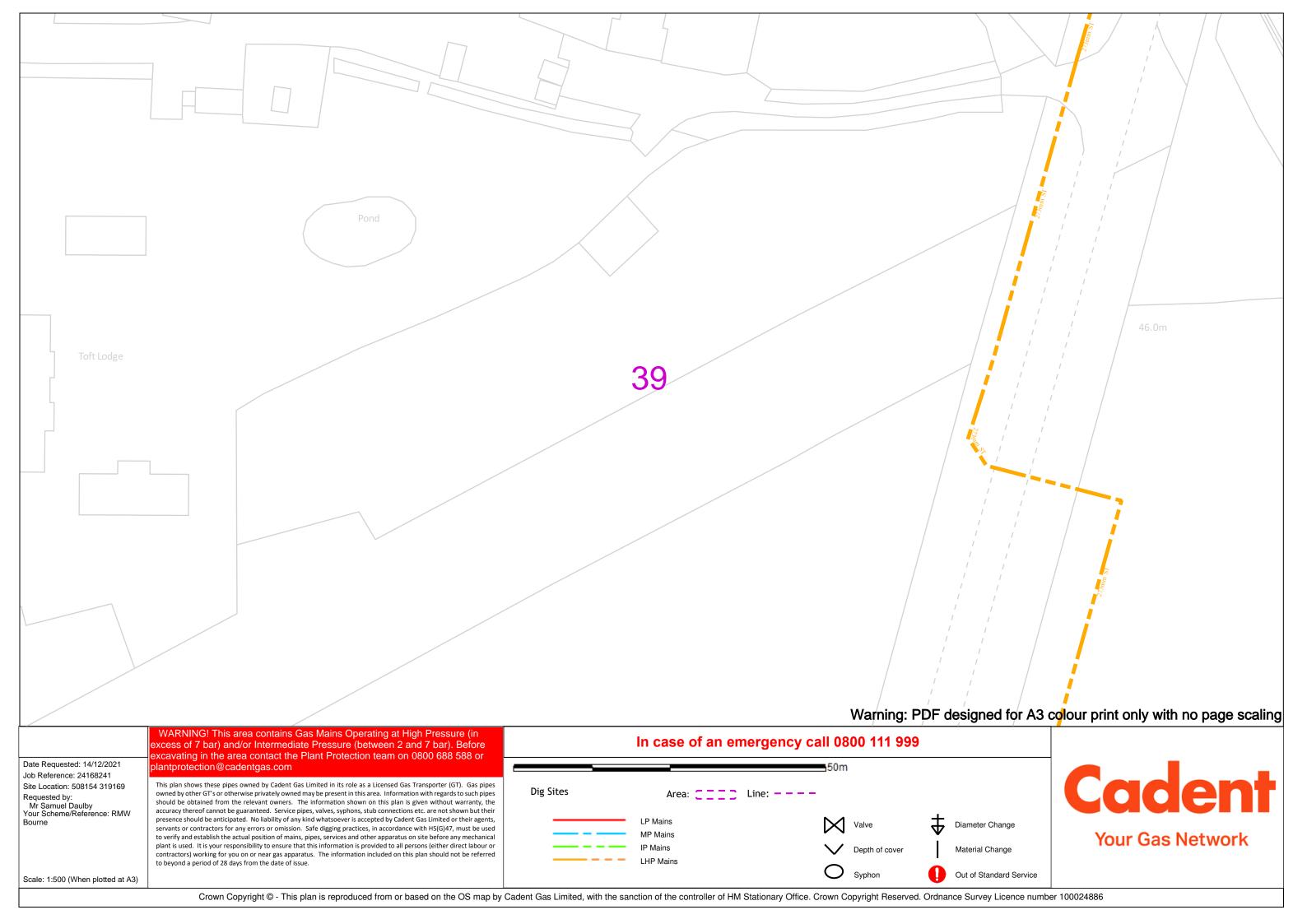


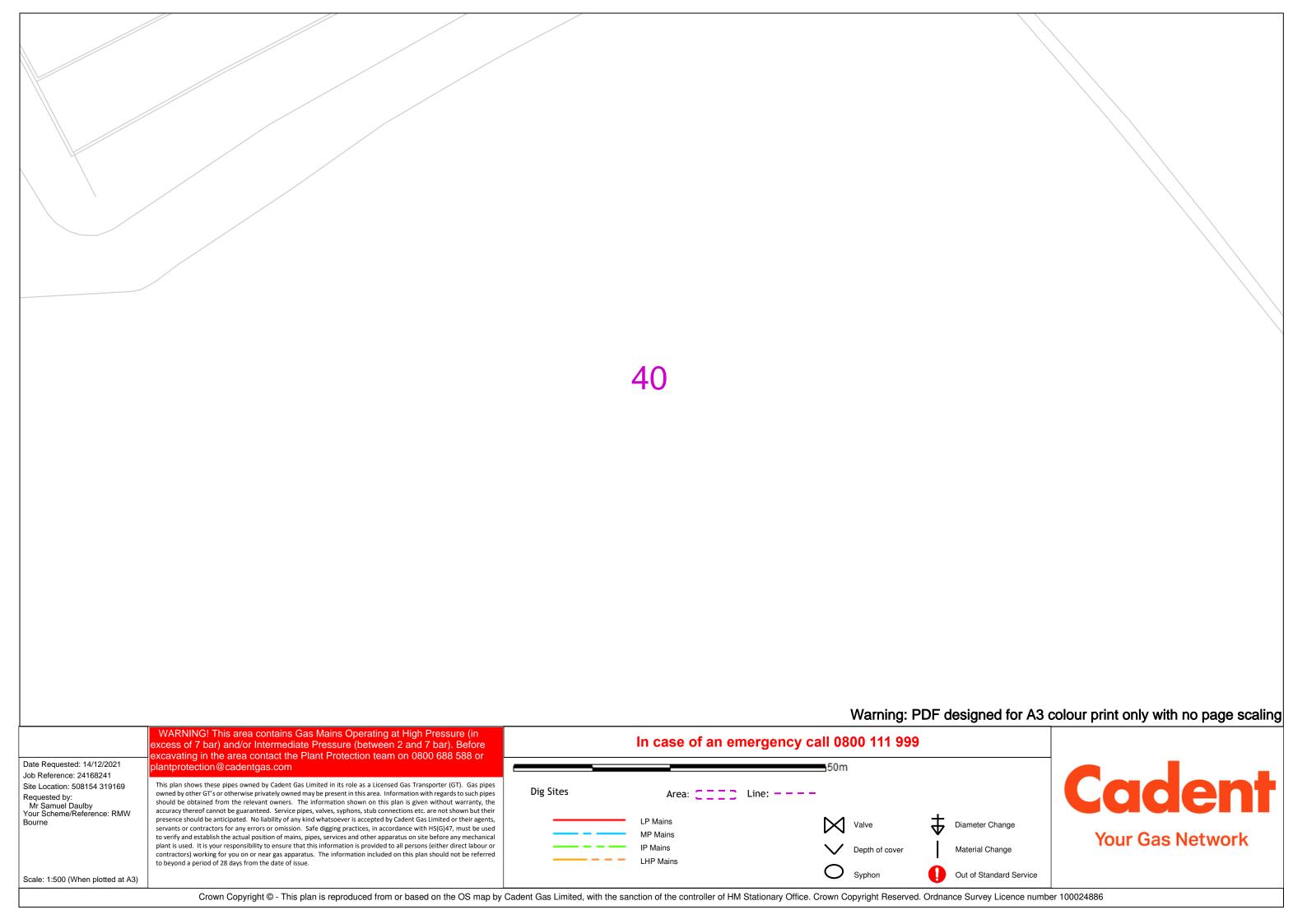












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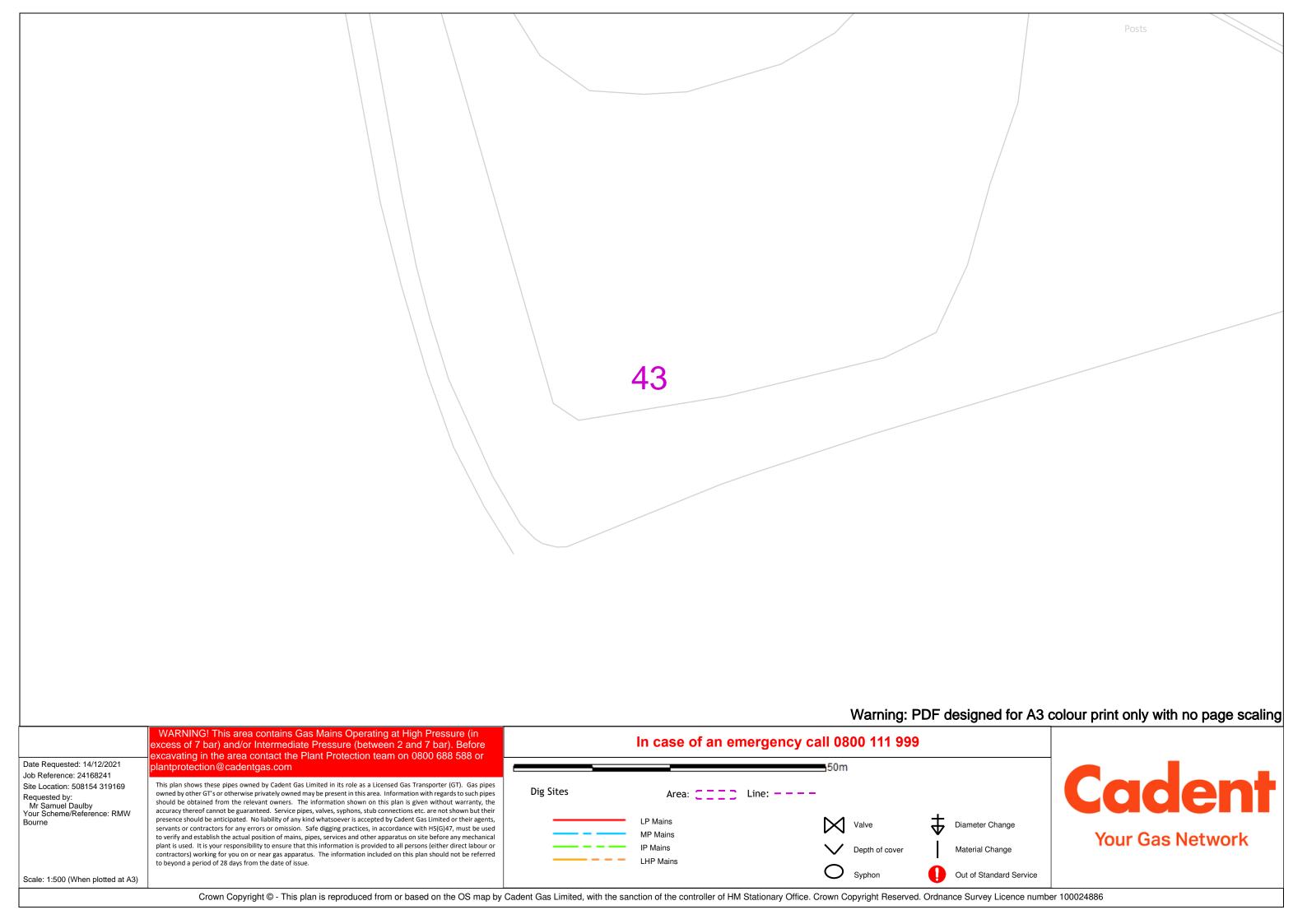
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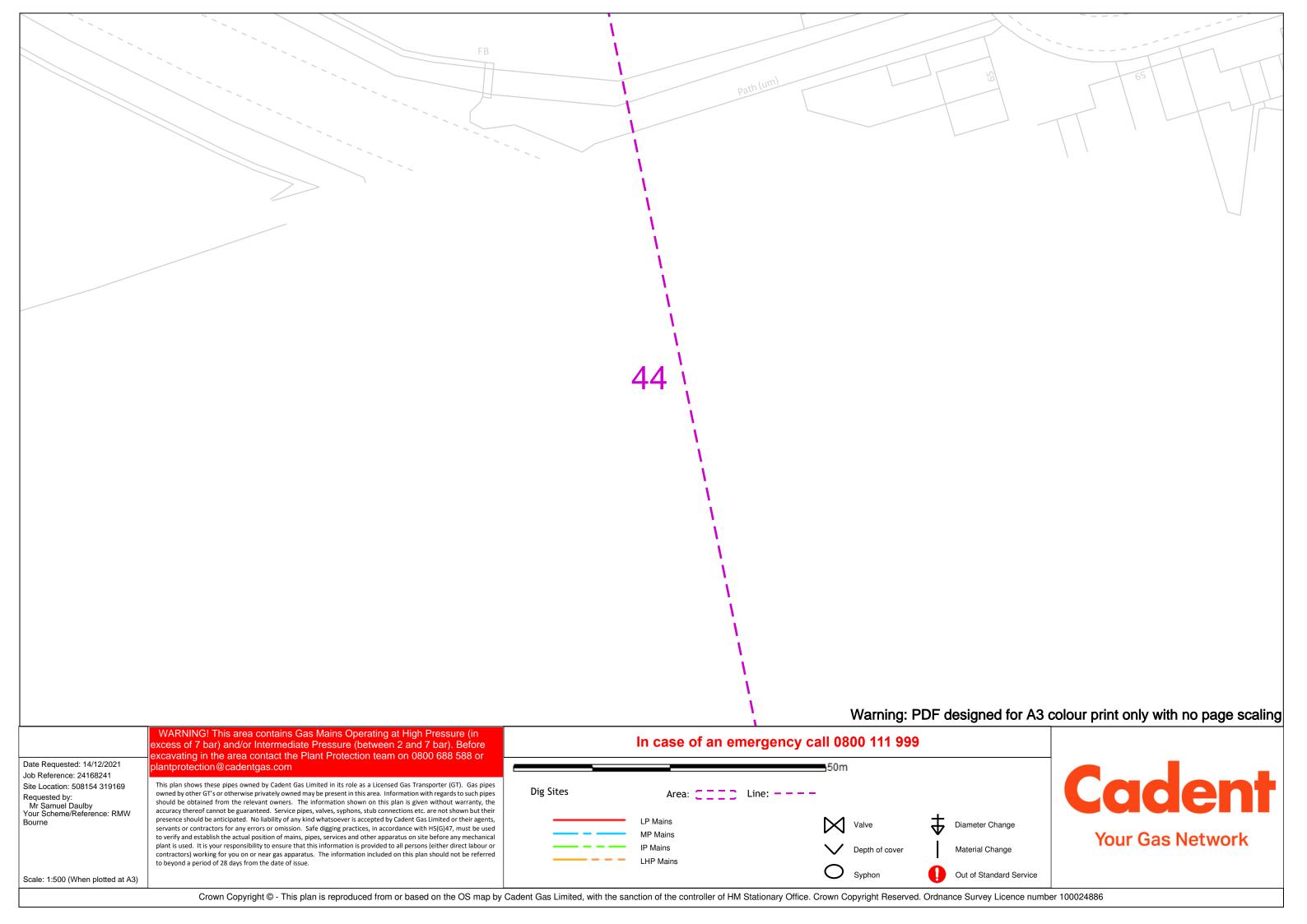
lantprotection@cadentgas.com

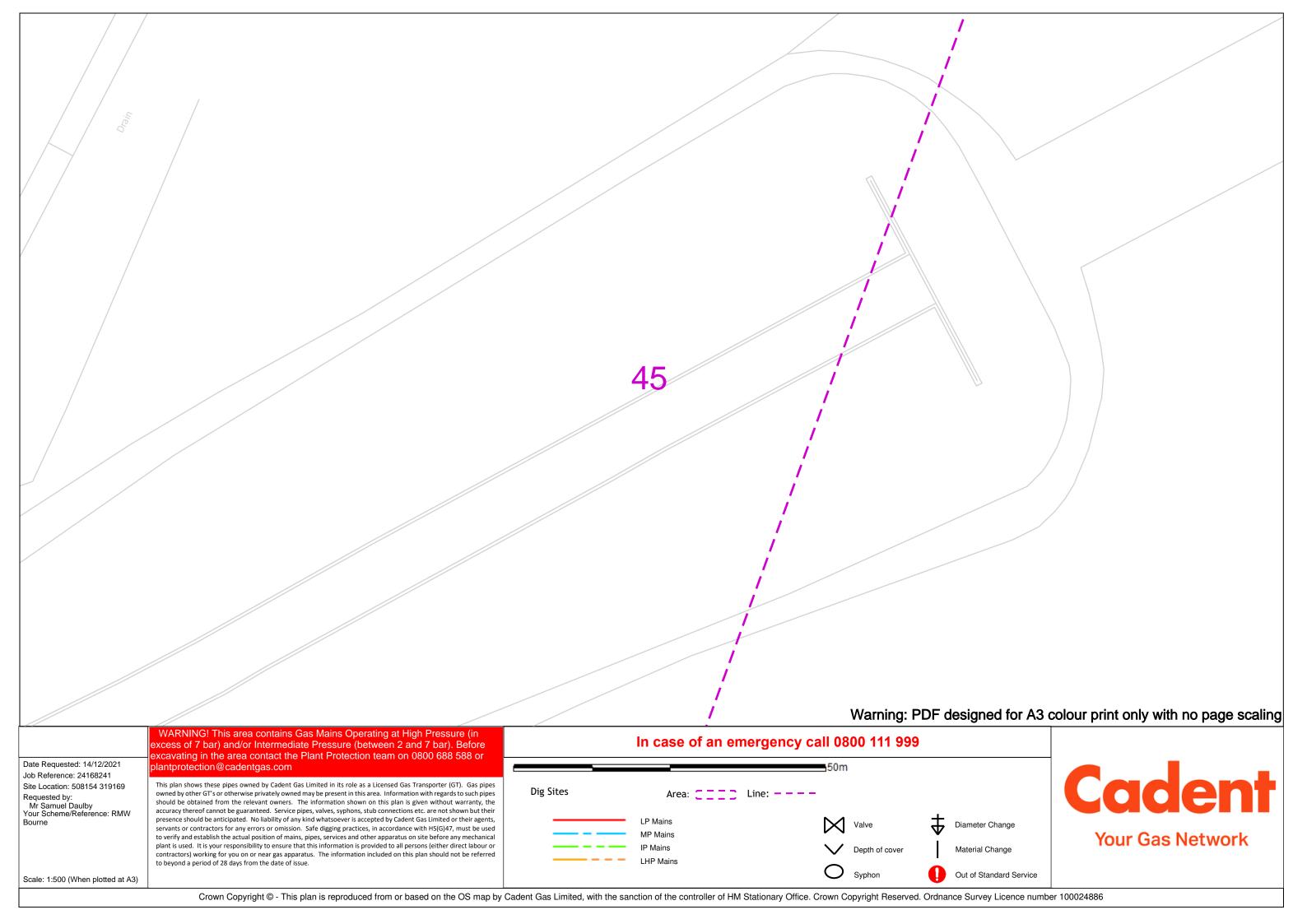
 $to \ verify \ and \ establish \ the \ actual \ position \ of \ mains, \ pipes, \ services \ and \ other \ apparatus \ on \ site \ before \ any \ mechanical$  $plant\ is\ used.\ It\ is\ your\ responsibility\ to\ ensure\ that\ this\ information\ is\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ provide$ contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

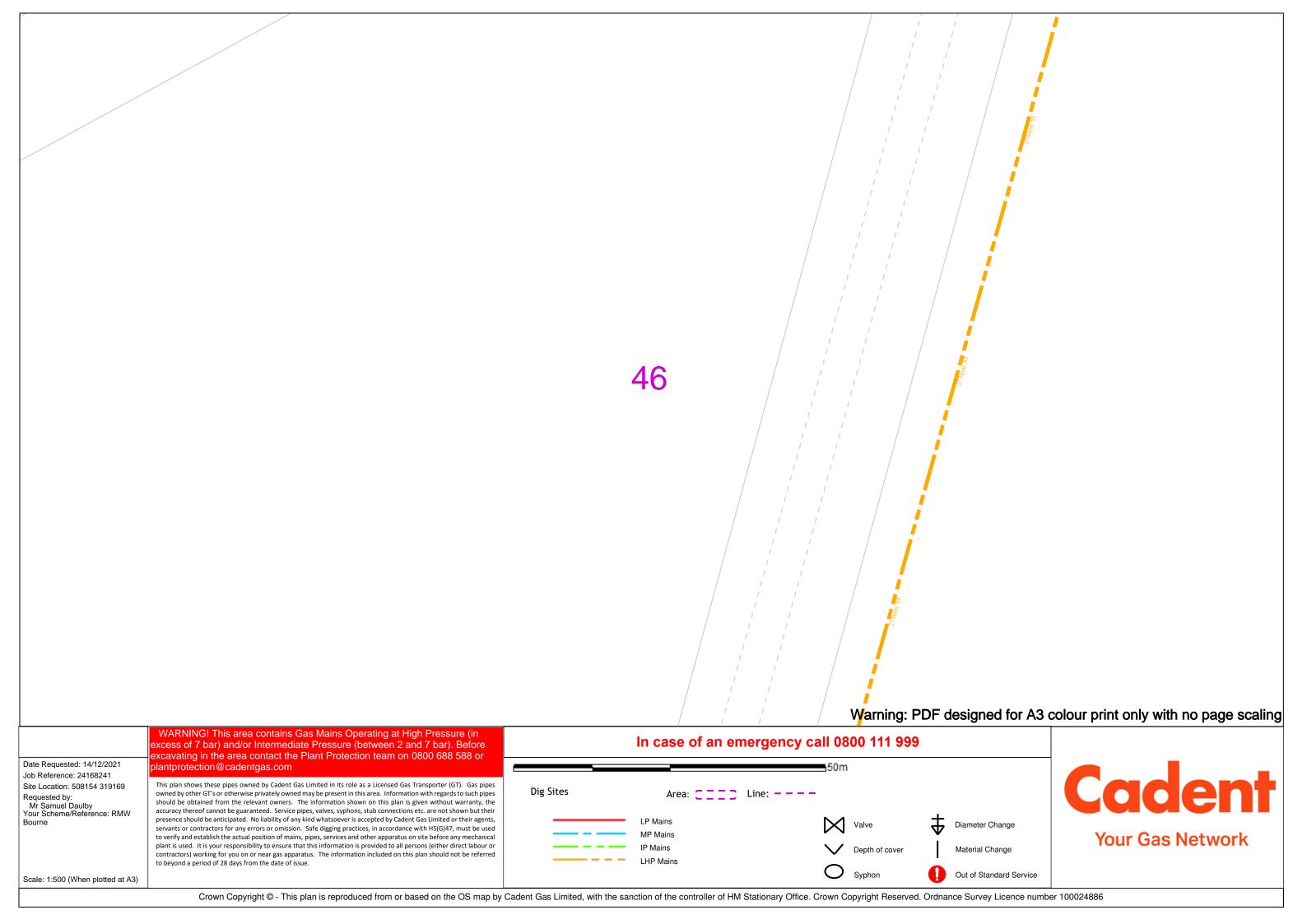
In case of an emergency call 0800 111 999 Area: \_ \_ \_ \_ Line: - - - -Dig Sites LP Mains Diameter Change Depth of cover Material Change LHP Mains Out of Standard Service



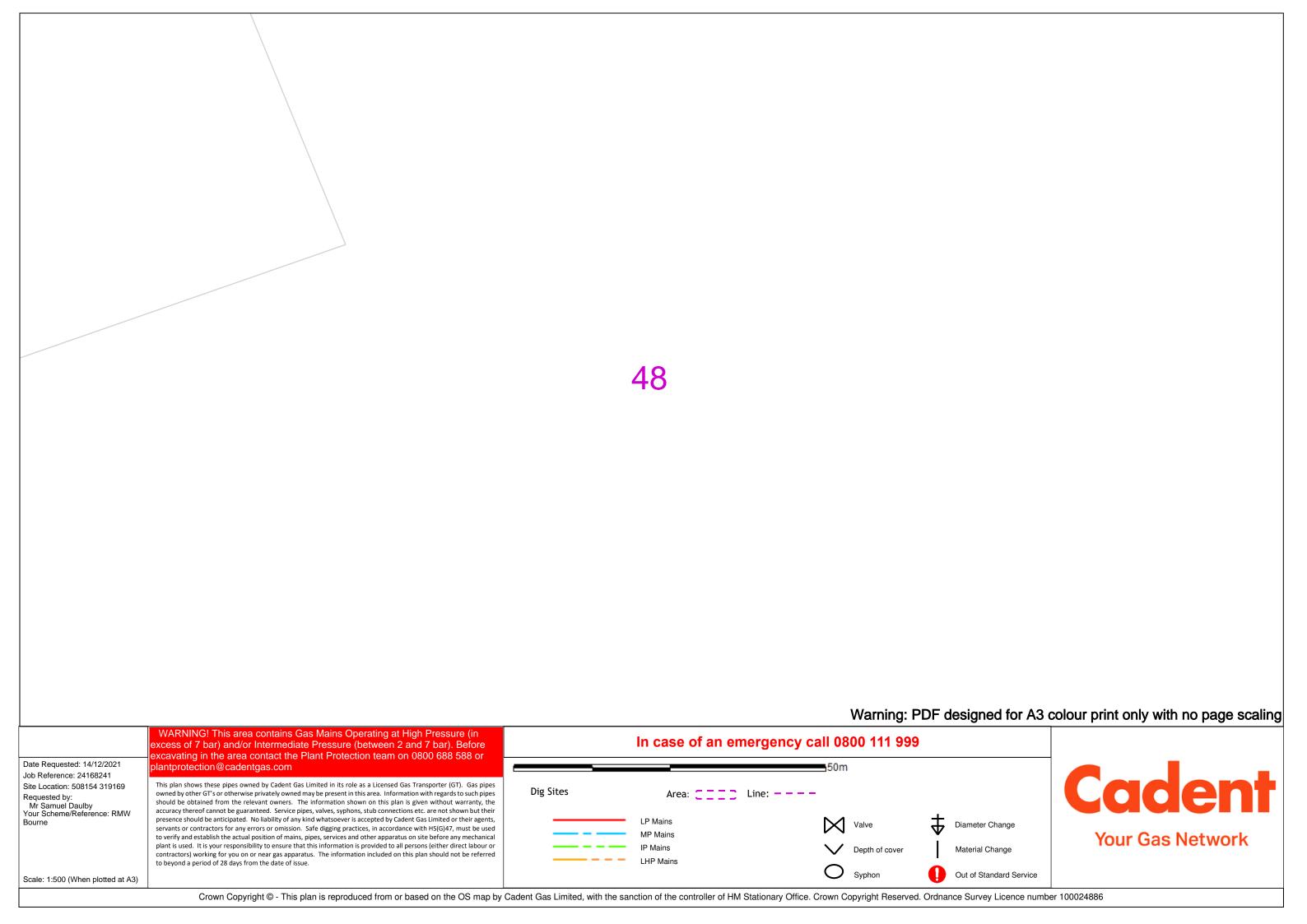








Warning: PDF designed for A3 colour print only with no page scaling WARNING! This area contains Gas Mains Operating at High Pressure (in xcess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before In case of an emergency call 0800 111 999 xcavating in the area contact the Plant Protection team on 0800 688 588 or Date Requested: 14/12/2021 lantprotection@cadentgas.com Cadent Job Reference: 24168241 This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes Site Location: 508154 319169 Area: \_ \_ \_ \_ Line: - - - -Dig Sites  $owned\ by\ other\ GT's\ or\ otherwise\ privately\ owned\ may\ be\ present\ in\ this\ area.\ Information\ with\ regards\ to\ such\ pipes$ Requested by: should be obtained from the relevant owners. The information shown on this plan is given without warranty, the Mr Samuel Daulby Your Scheme/Reference: RMW accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, LP Mains Diameter Change servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used Your Gas Network  $to \ verify \ and \ establish \ the \ actual \ position \ of \ mains, \ pipes, \ services \ and \ other \ apparatus \ on \ site \ before \ any \ mechanical$  $plant\ is\ used.\ It\ is\ your\ responsibility\ to\ ensure\ that\ this\ information\ is\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ provide$ Depth of cover Material Change contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Out of Standard Service Scale: 1:500 (When plotted at A3) Crown Copyright @ - This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886





Date Requested: 14/12/2021 Job Reference: 24168241 Site Location: 508154 319169 Requested by: Mr Samuel Daulby Your Scheme/Reference: RMW

Scale: 1:500 (When plotted at A3)

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes  $owned\ by\ other\ GT's\ or\ otherwise\ privately\ owned\ may\ be\ present\ in\ this\ area.\ Information\ with\ regards\ to\ such\ pipes$ should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used

WARNING! This area contains Gas Mains Operating at High Pressure (in

lantprotection@cadentgas.com

xcess of 7 bar) and/or Intermediate Pressure (between 2 and 7 bar). Before xcavating in the area contact the Plant Protection team on 0800 688 588 or

 $to \ verify \ and \ establish \ the \ actual \ position \ of \ mains, \ pipes, \ services \ and \ other \ apparatus \ on \ site \ before \ any \ mechanical$  $plant\ is\ used.\ It\ is\ your\ responsibility\ to\ ensure\ that\ this\ information\ is\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ all\ persons\ (either\ direct\ labour\ or\ provided\ to\ provide$ contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

## In case of an emergency call 0800 111 999 Area: \_ \_ \_ \_ Line: - - - -Dig Sites LP Mains Diameter Change Depth of cover Material Change LHP Mains Out of Standard Service





Date Requested: 14/12/2021 Job Reference: 24168241 Site Location: 508154 319169 Requested by: Mr Samuel Daulby Your Scheme/Reference: RMW Bourne

Scale: 1:500 (When plotted at A3)

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical

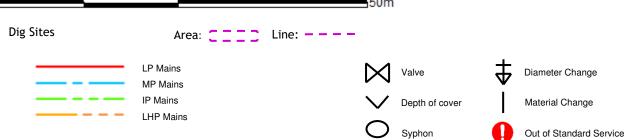
WARNING! This area contains Gas Mains Operating at High Pressure (in

lantprotection@cadentgas.com

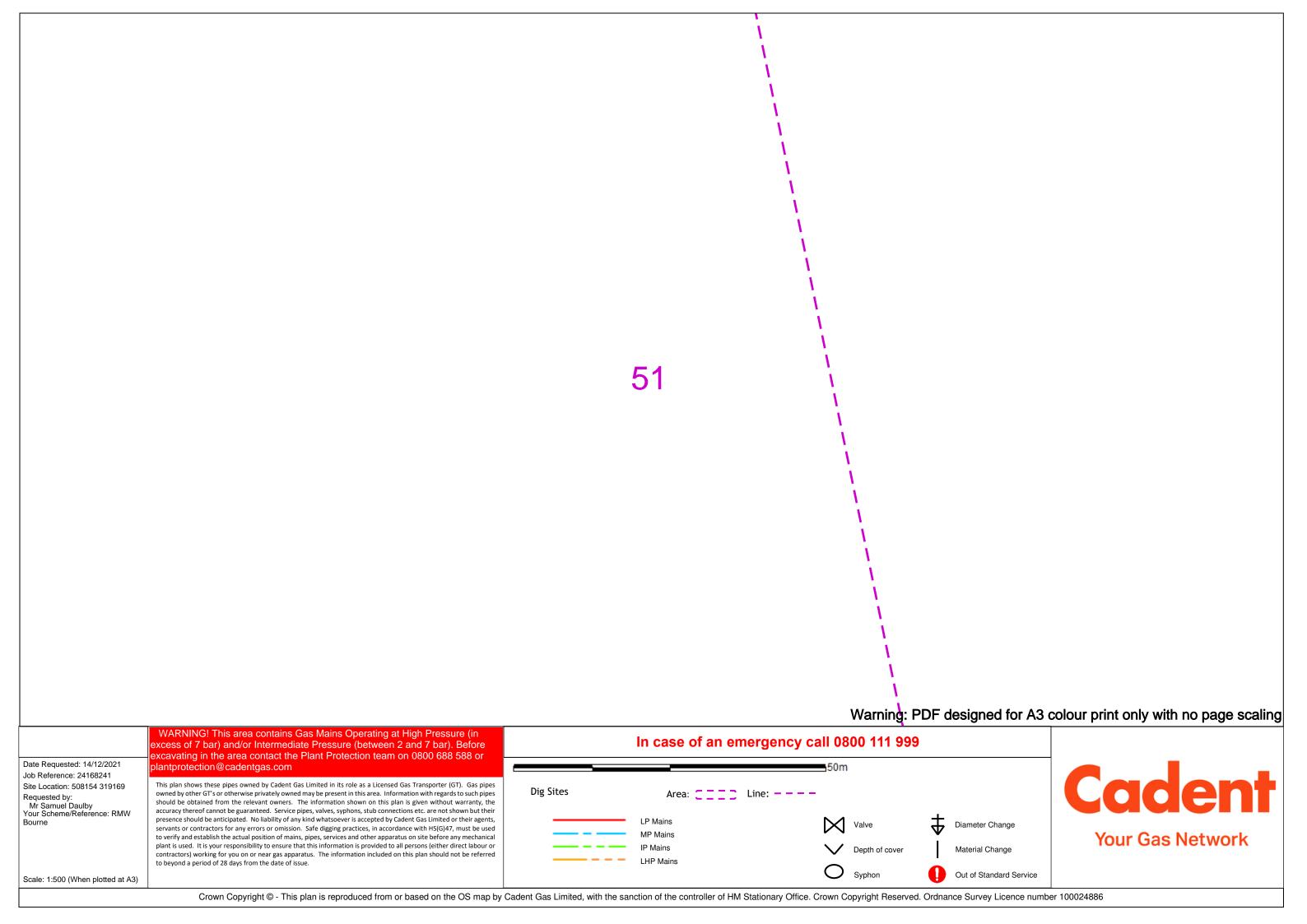
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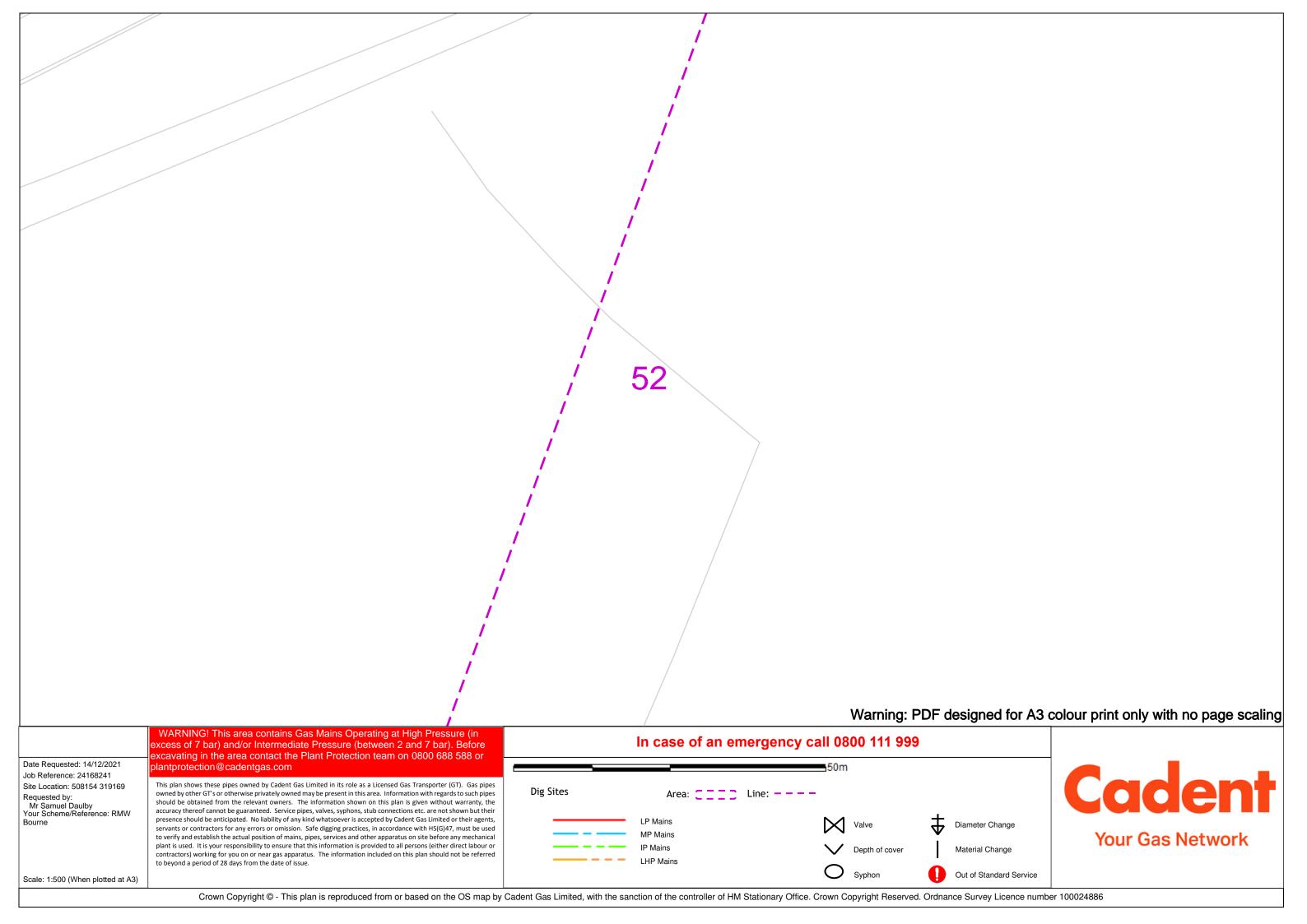
presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

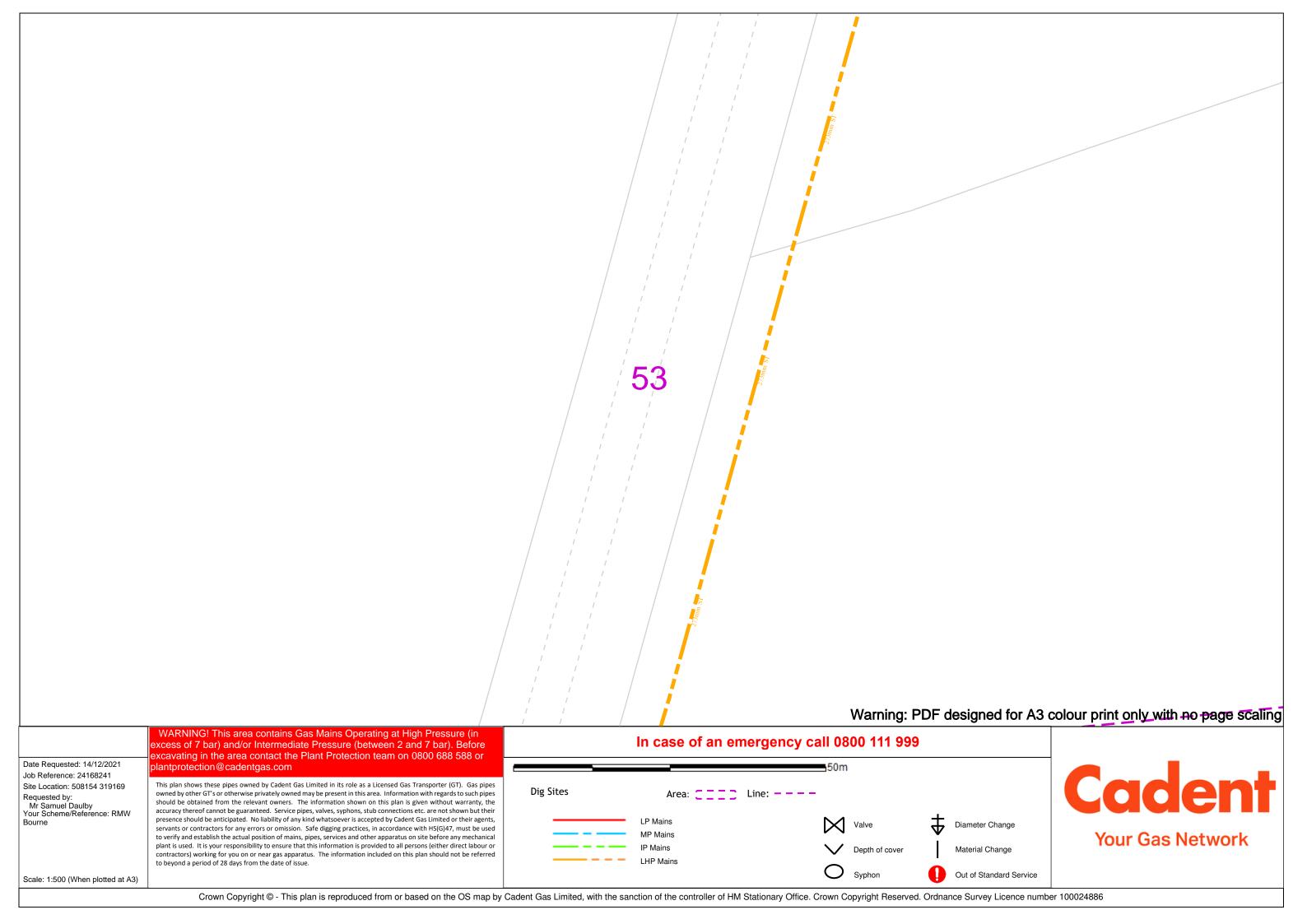
## In case of an emergency call 0800 111 999

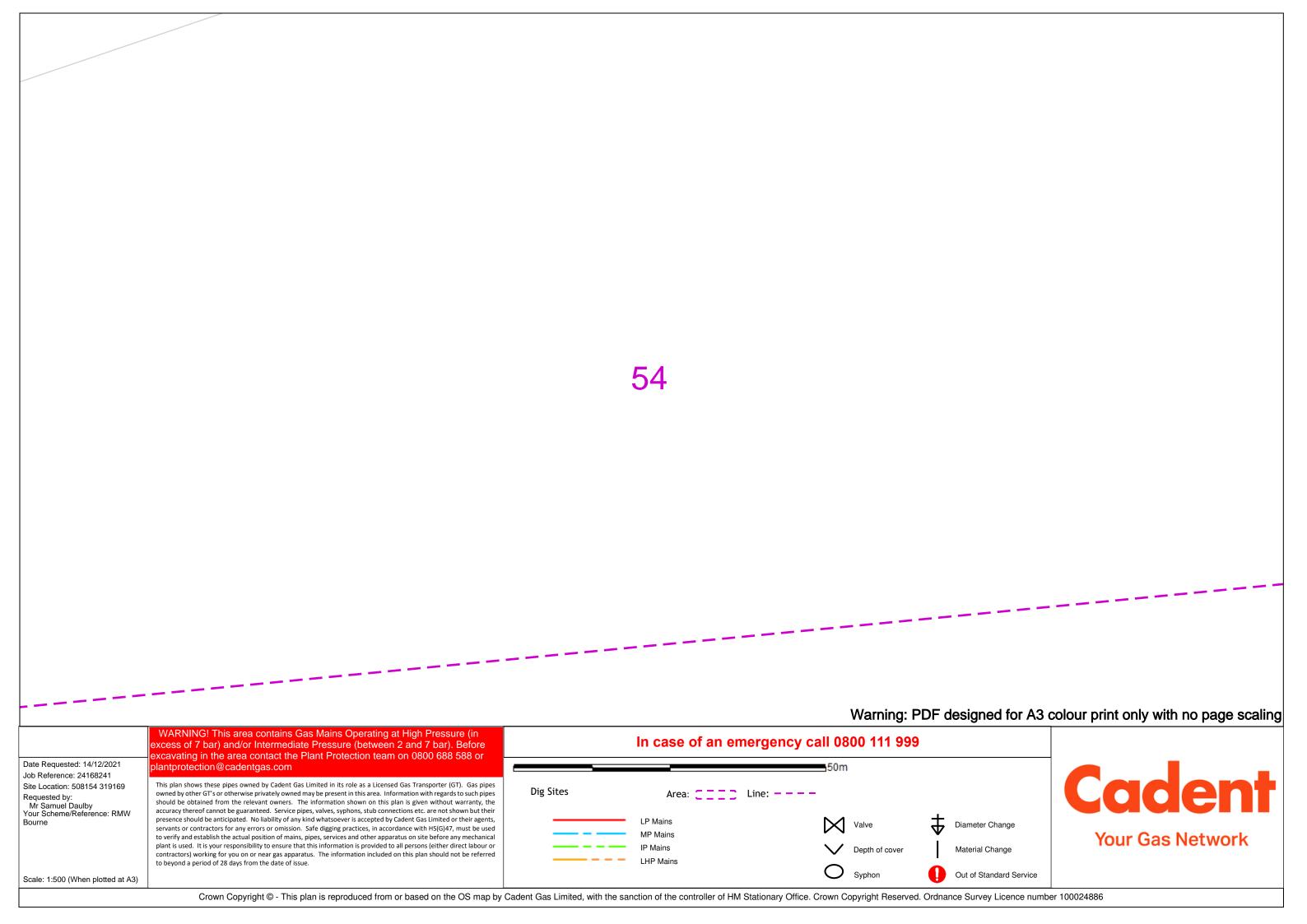


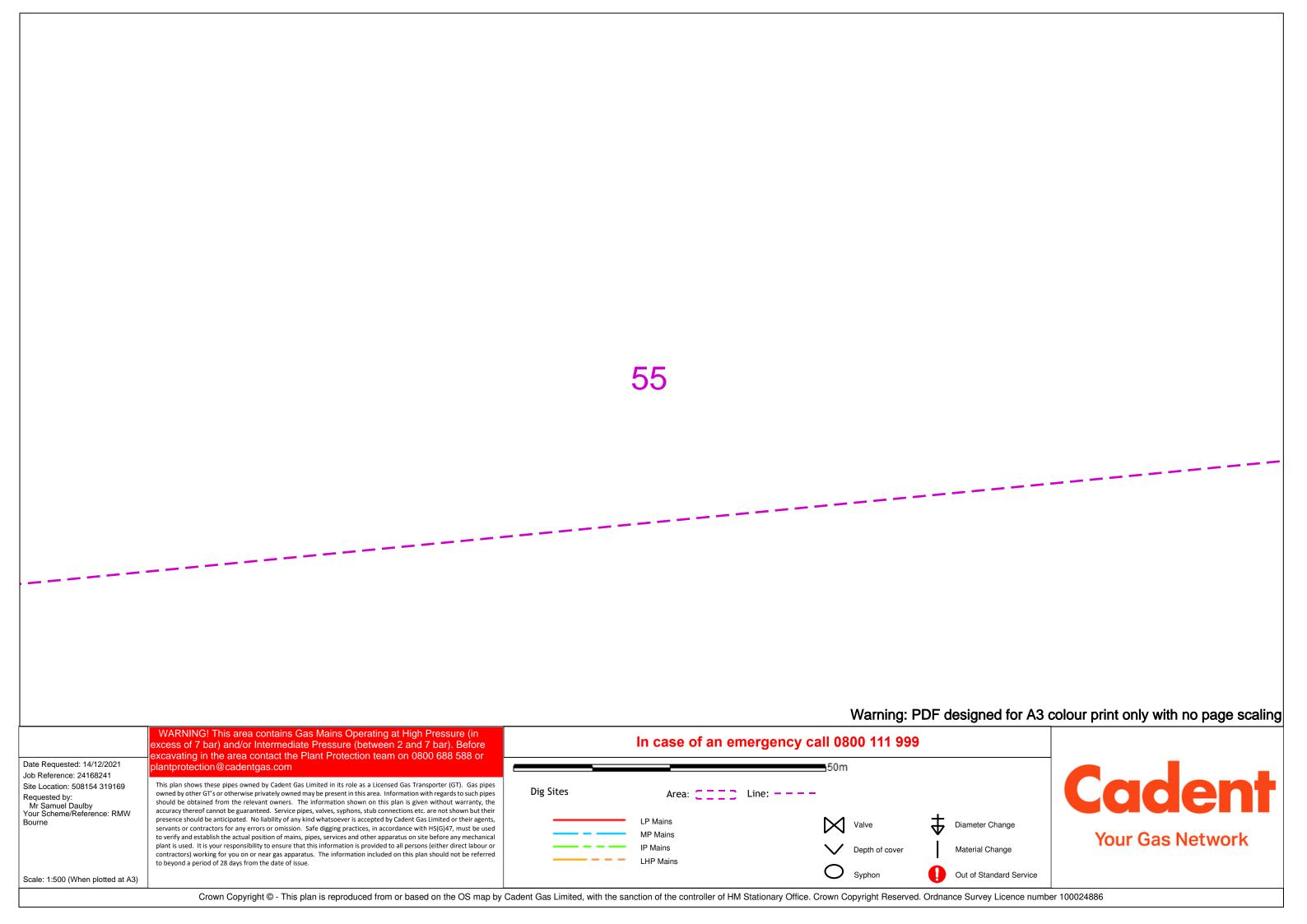


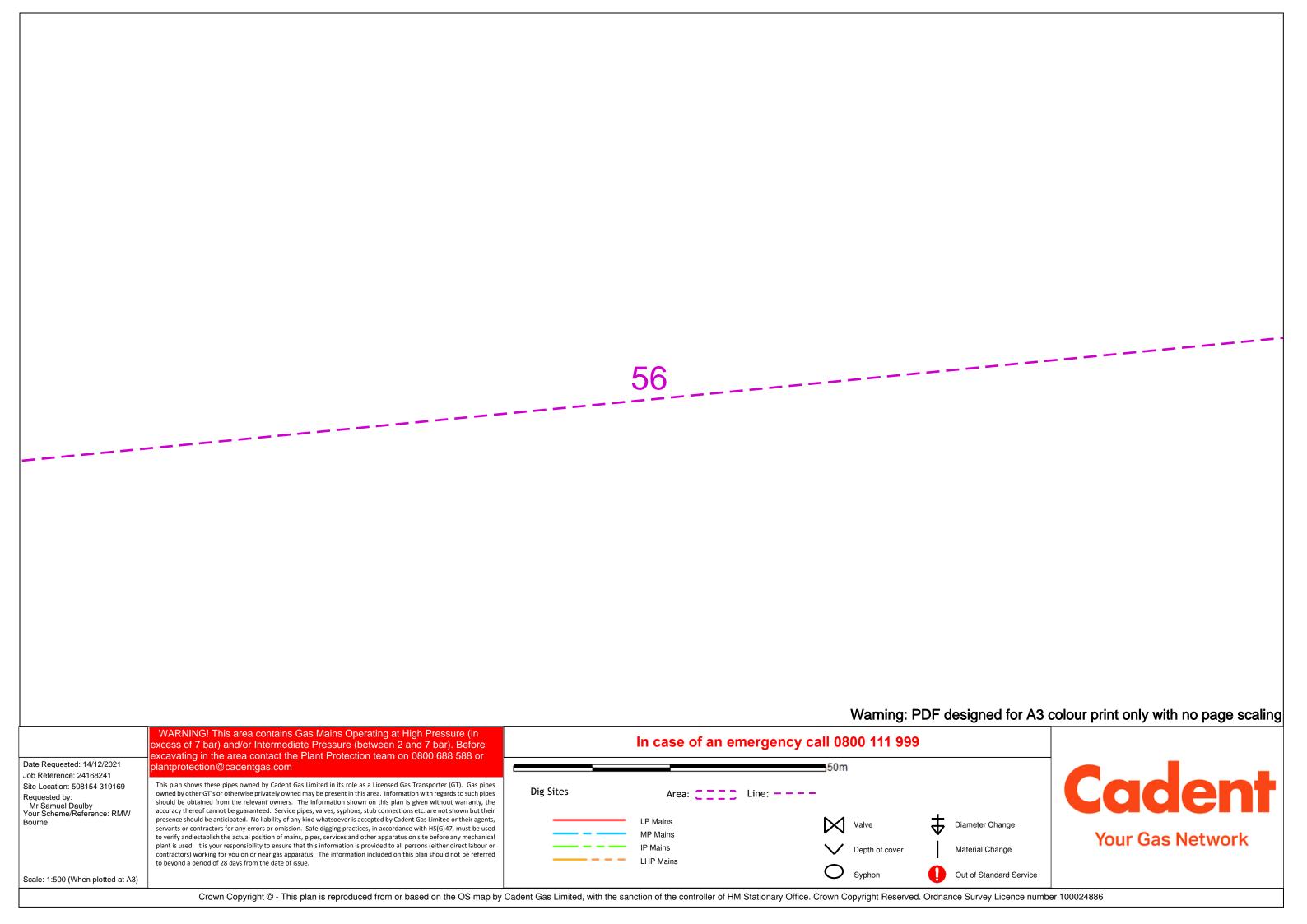


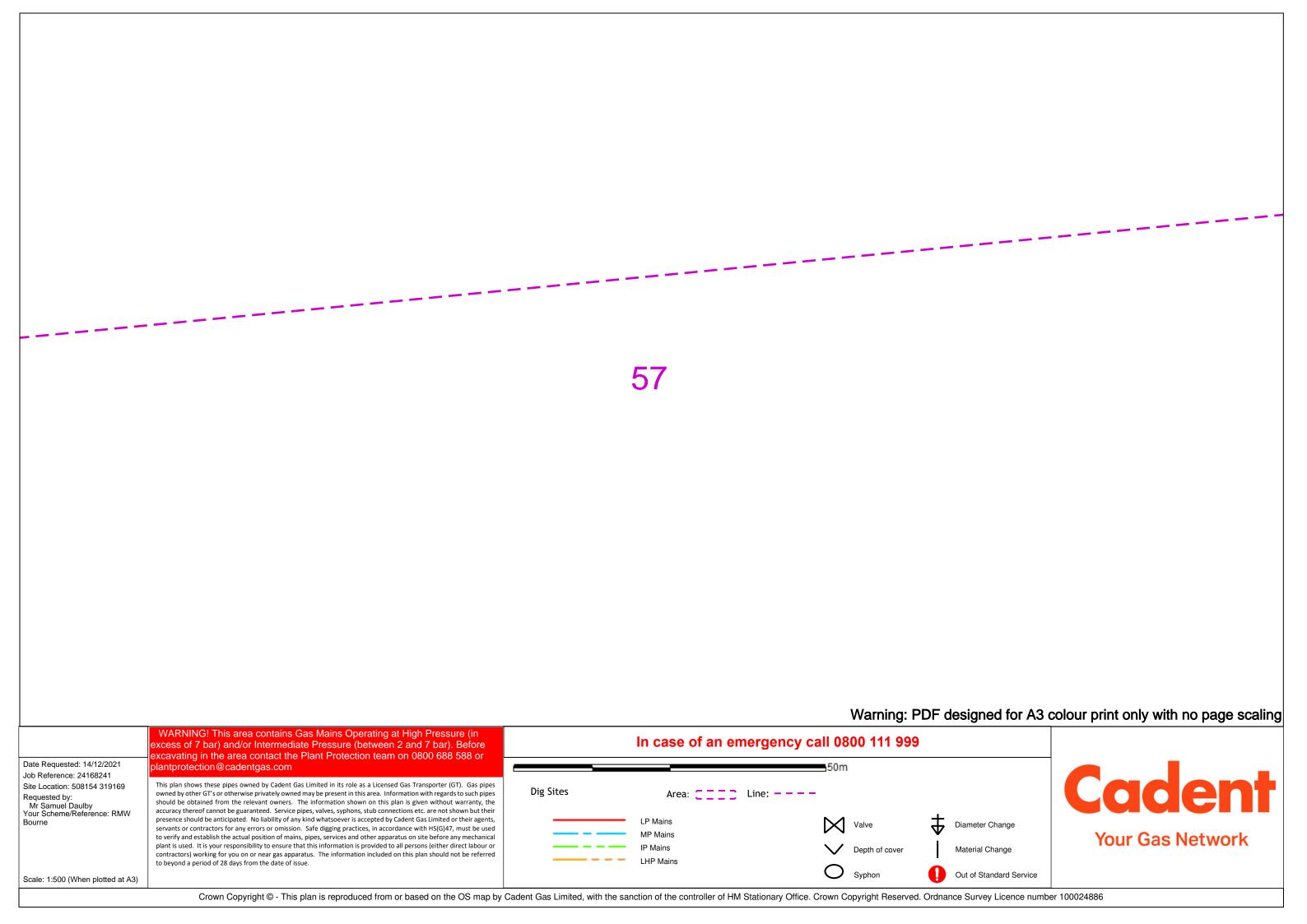


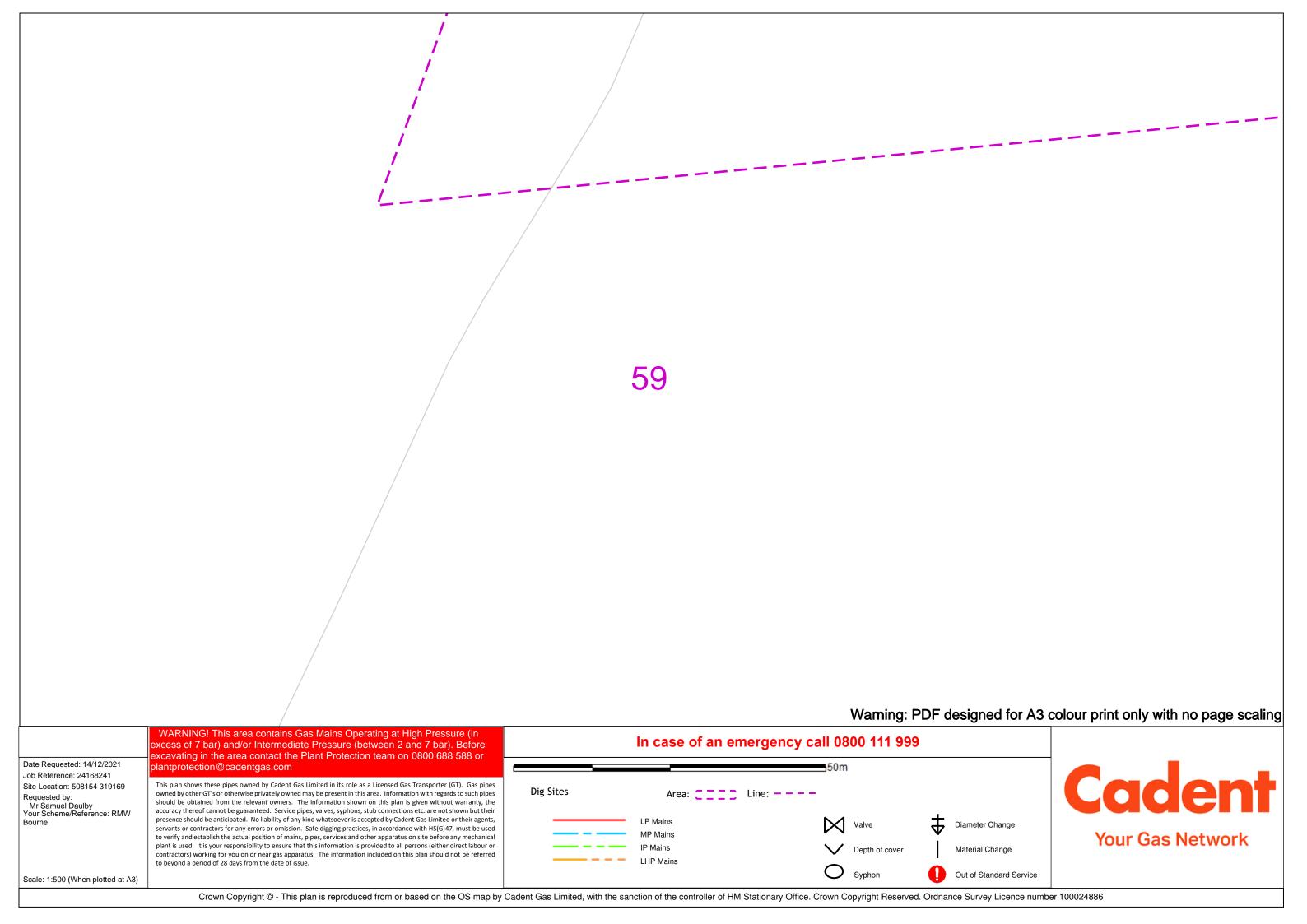


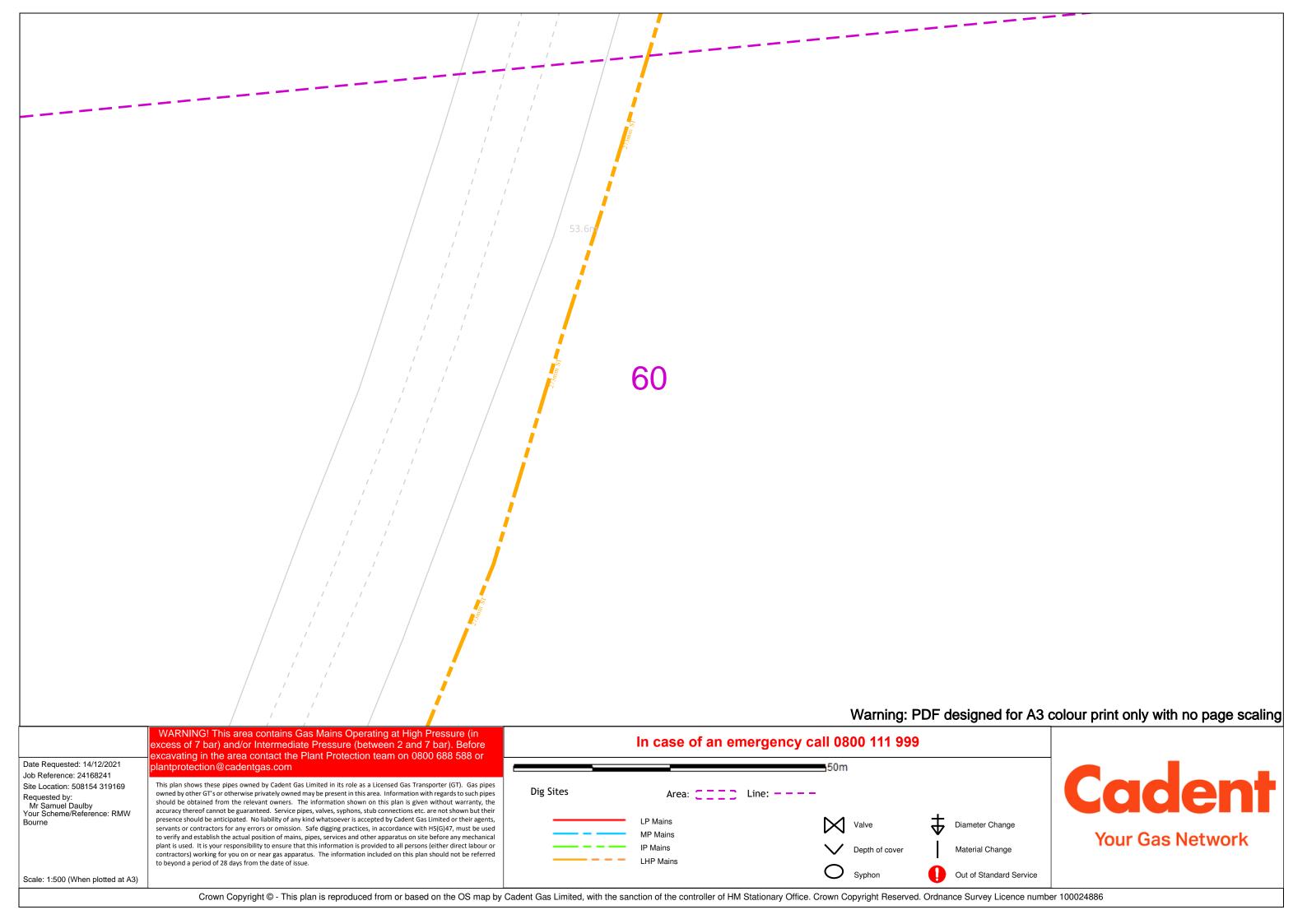


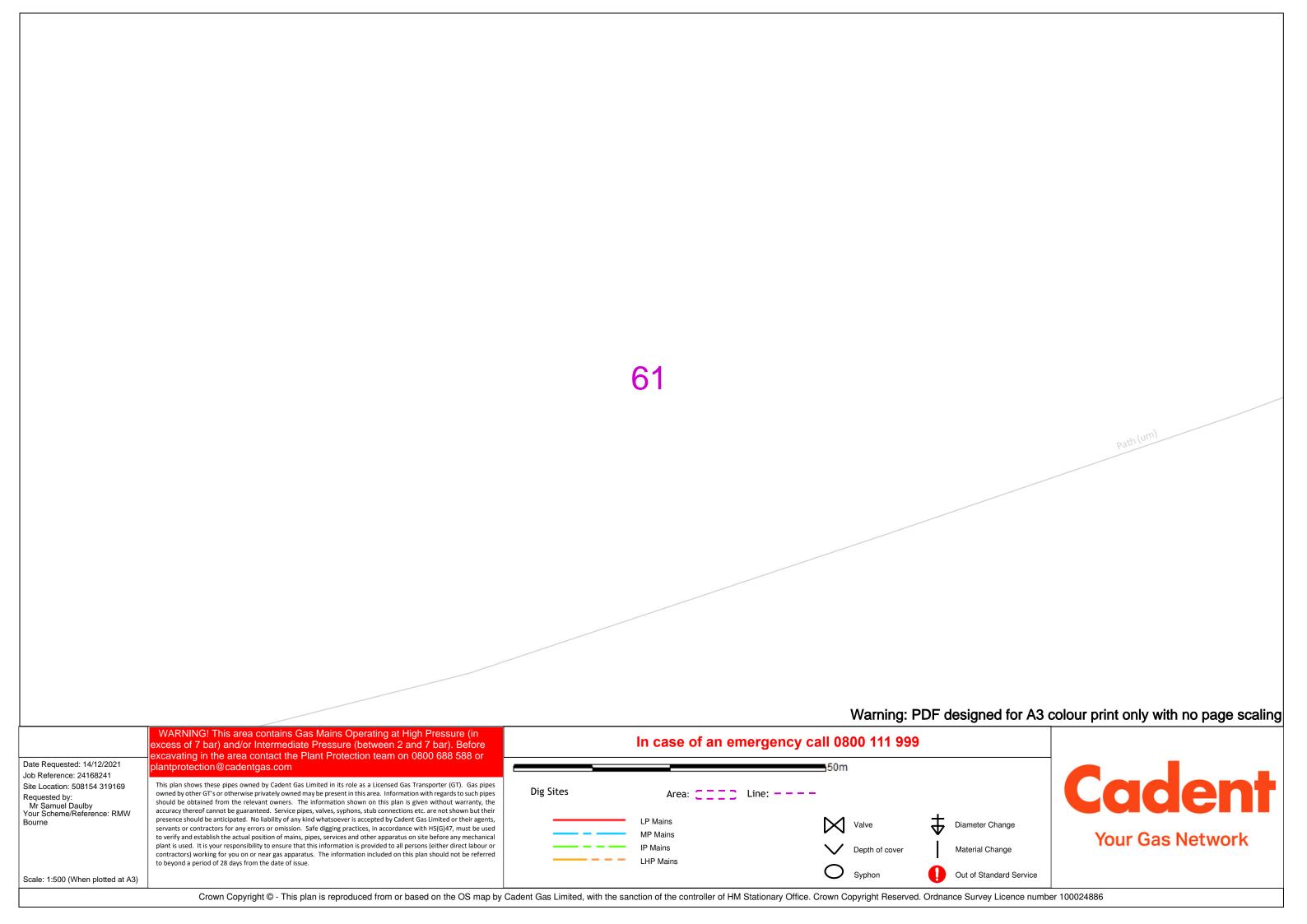


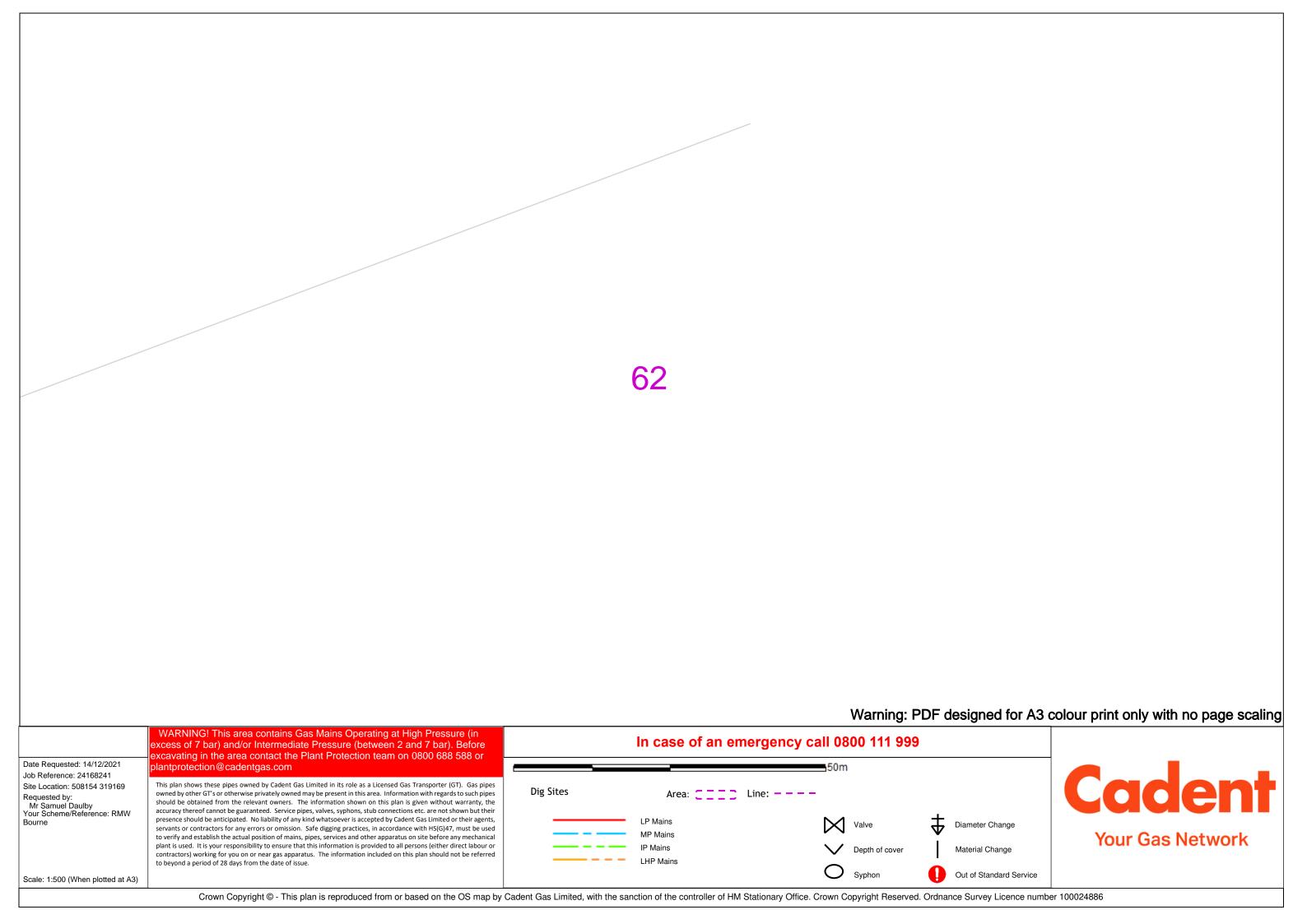












| Appendix C – WPD 132kV Correspondence |  |
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## Samuel Daulby

From: Sherwin, Lee <lsherwin@westernpower.co.uk>

Sent: 16 December 2021 11:58
To: Samuel Daulby; Lilley, Chris

Subject: RE: Land to the West of Raymond Mays Way, Bourne - Existing WPD Infrastructure

Hi Sam,

Thanks for taking the time to talk to me. As discussed WPD would advise you to maintain a 15mtr distance from the outermost conductors and 15 mtrs from the bases of any towers. This enables works to be carried out safely and if gives us a clear distance away if we were to encounter any problems with the OHL (i.e. conductor failure).

Many thanks,

## Lee Sherwin Overhead Line Technician

Major Projects Grantham Alma Park Industrial Estate Isaac Newton Way Grantham NG31 9RT

E:lsherwin@westernpower.co.uk

M:07738 604713

Team Support: Ellen Friel 01476 863047

efriel@westernpower.co.uk

Team Manager: James Bradley 01476 863048

jbradley@westernpower.co.uk



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From: Samuel Daulby <sam@utilityconsult.co.uk>

**Sent:** 13 December 2021 09:10

**To:** Lilley, Chris <clilley@westernpower.co.uk>; Sherwin, Lee <lsherwin@westernpower.co.uk> **Subject:** RE: Land to the West of Raymond Mays Way, Bourne - Existing WPD Infrastructure

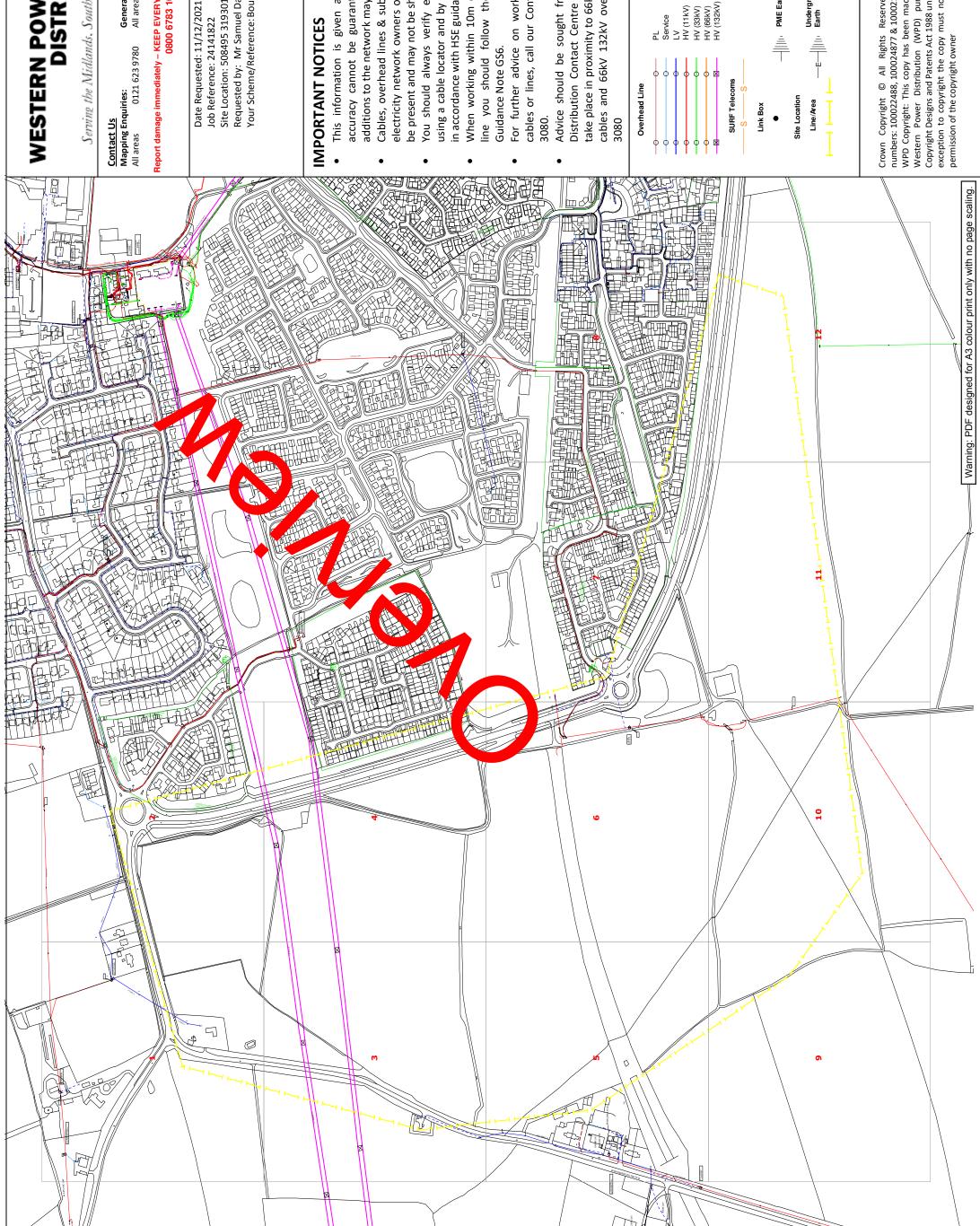
CAUTION: This email originated from outside of Western Power Distribution. Do not click links or open attachments unless you recognise the sender and know the content is safe. If you notice anything suspicious please contact the WPD Cyber Team (email: <a href="wpdcyberteam@westernpower.co.uk">wpdcyberteam@westernpower.co.uk</a>)

Thanks Chris,

Hi Lee, Maybe we can discuss?

Kind regards, Sam Daulby T. 01536 639000

E. Sam@utilityconsult.co.uk



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0121 623 9780

0800 006 3080

**General Enquiries:** 

All areas

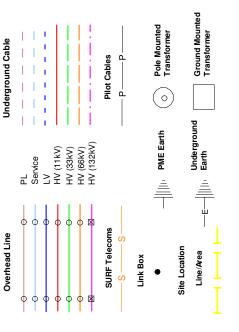
Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA 0800 6783 105

Requested by: Mr Samuel Daulby Site Location: 508495 319301

Your Scheme/Reference: Bourne SUE

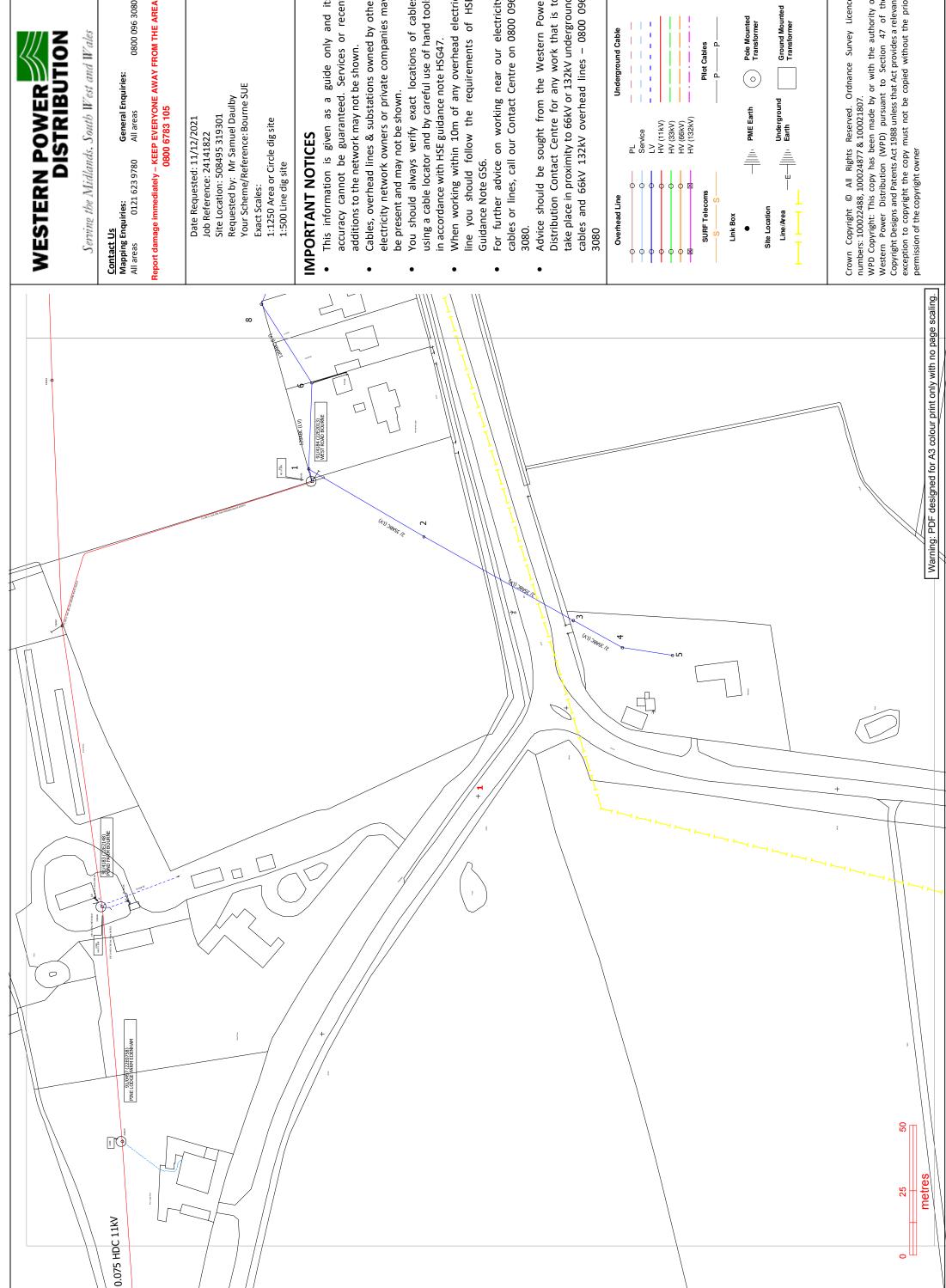
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  - using a cable locator and by careful use of hand tools You should always verify exact locations of cables
- When working within 10m of any overhead electric line you should follow the requirements of HSE in accordance with HSE guidance note HSG47. Guidance Note GS6.
  - For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to cables and 66kV 132kV overhead lines – 0800 096 take place in proximity to 66kV or 132kV underground



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All areas

0800 6783 105

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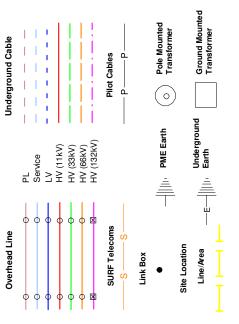
**General Enquiries:** 

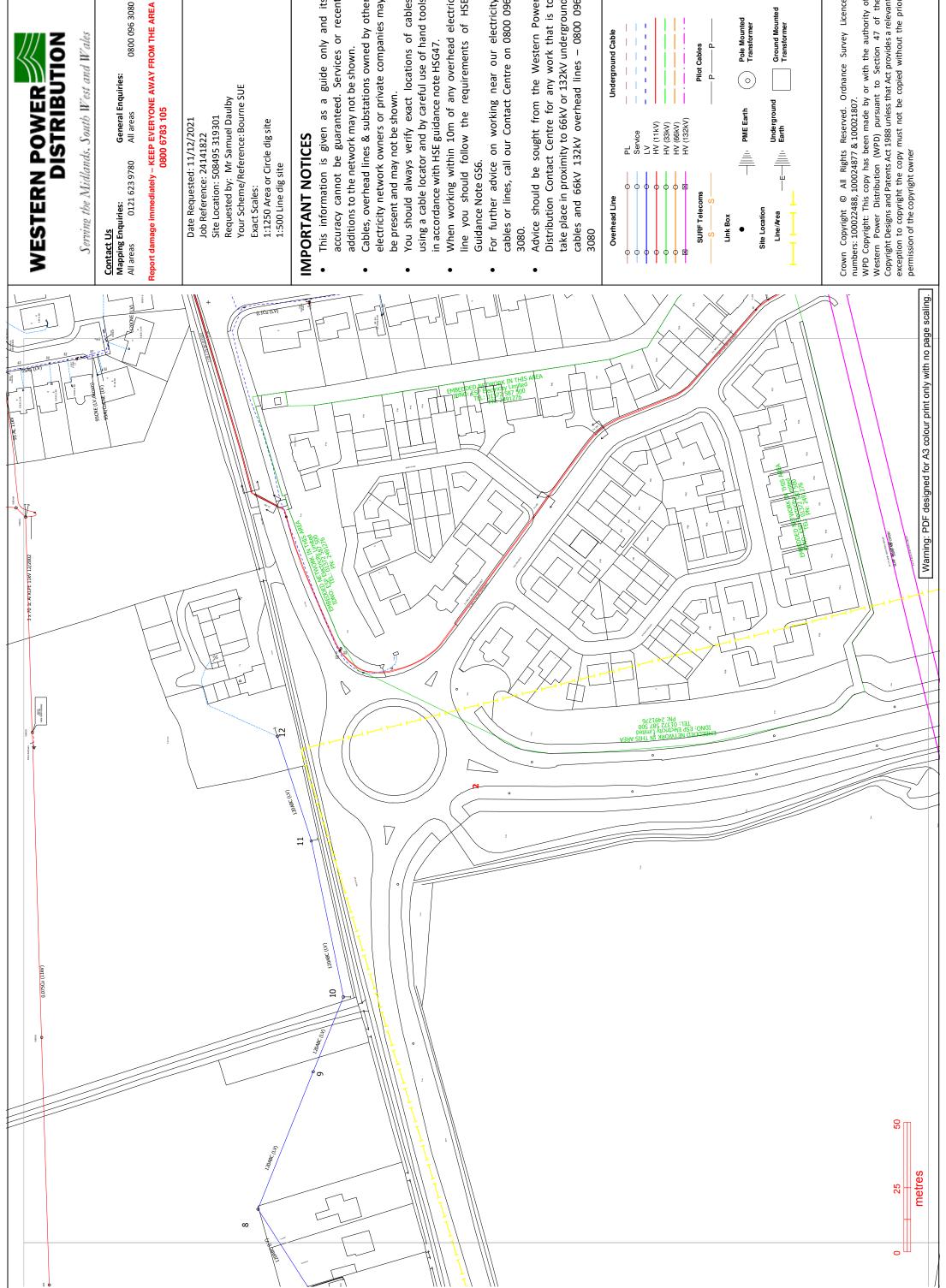
Your Scheme/Reference: Bourne SUE Requested by: Mr Samuel Daulby Site Location: 508495 319301

1:1250 Area or Circle dig site 1:500 Line dig site Exact Scales:

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- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096 3080





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**General Enquiries:** 

All areas

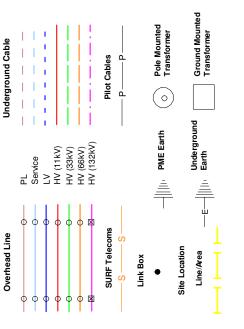
0800 6783 105

Requested by: Mr Samuel Daulby Site Location: 508495 319301

1:1250 Area or Circle dig site

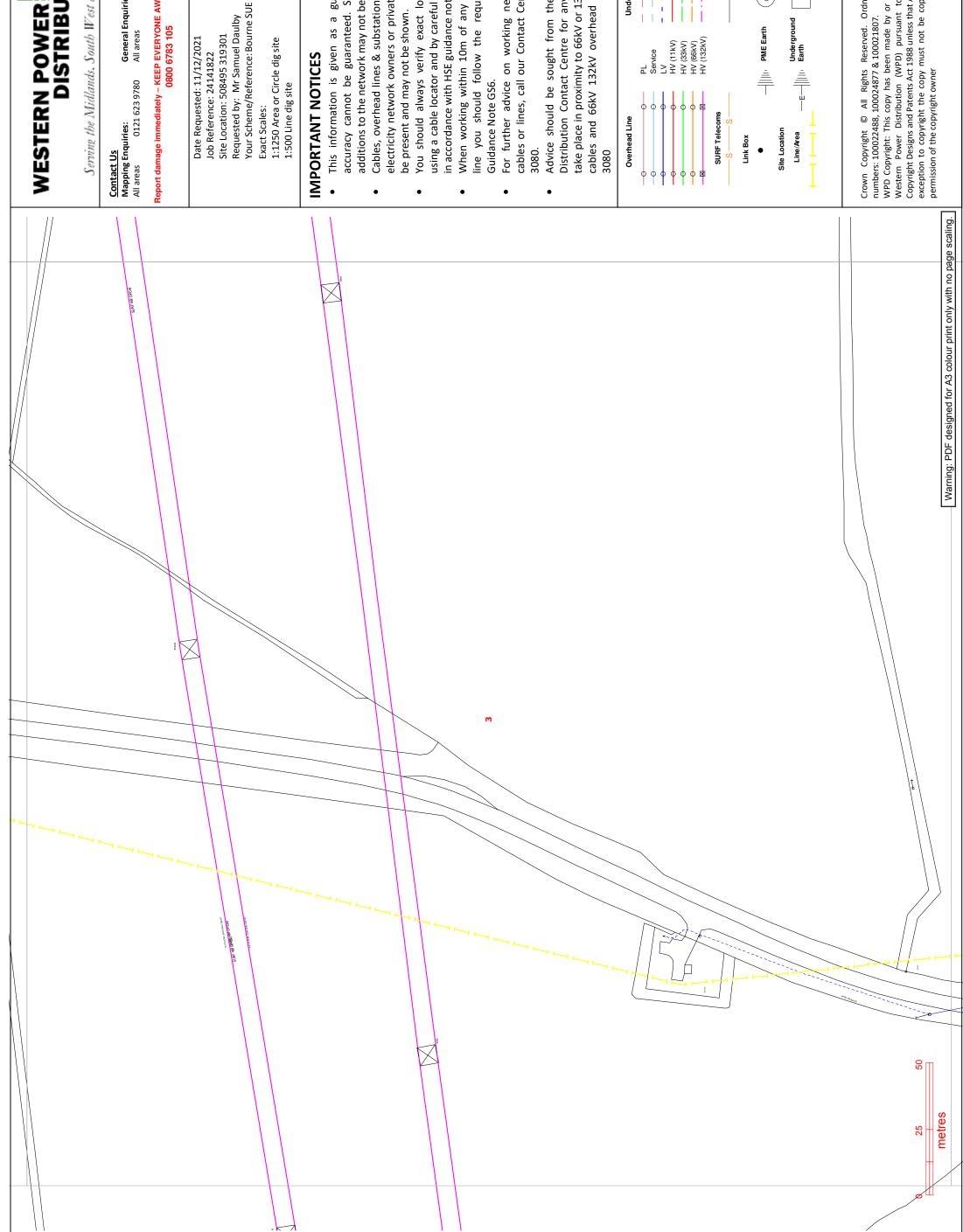
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- Advice should be sought from the Western Power cables and 66kV 132kV overhead lines - 0800 096 Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground



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Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA All areas

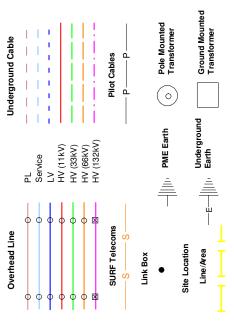
0800 6783 105 Date Requested: 11/12/2021 Job Reference: 24141822

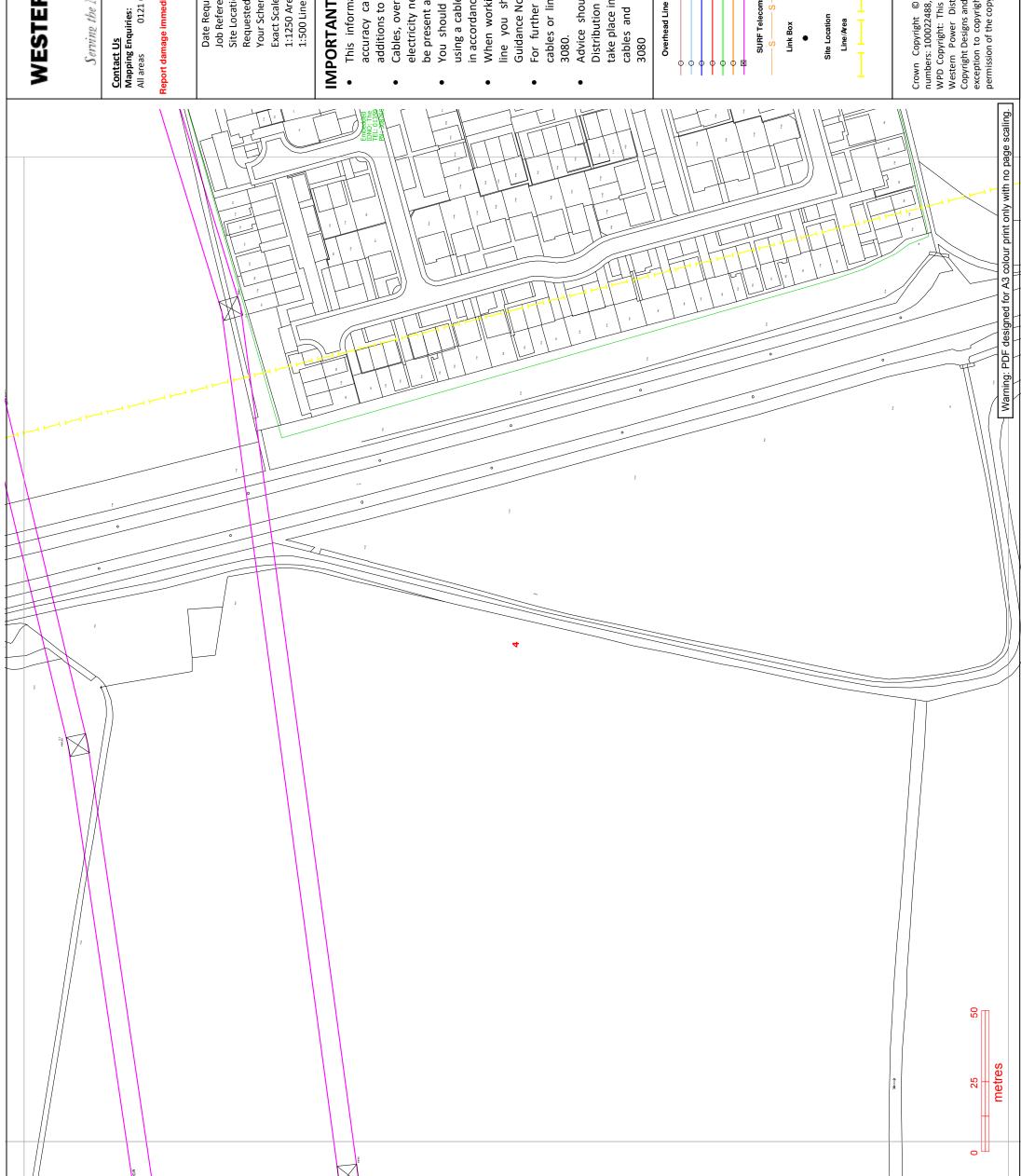
1:1250 Area or Circle dig site Exact Scales:

1:500 Line dig site

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0800 6783 105

Date Requested: 11/12/2021 Job Reference: 24141822

1:1250 Area or Circle dig site Exact Scales:

Your Scheme/Reference: Bourne SUE

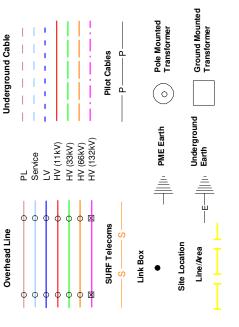
Requested by: Mr Samuel Daulby

Site Location: 508495 319301

1:500 Line dig site

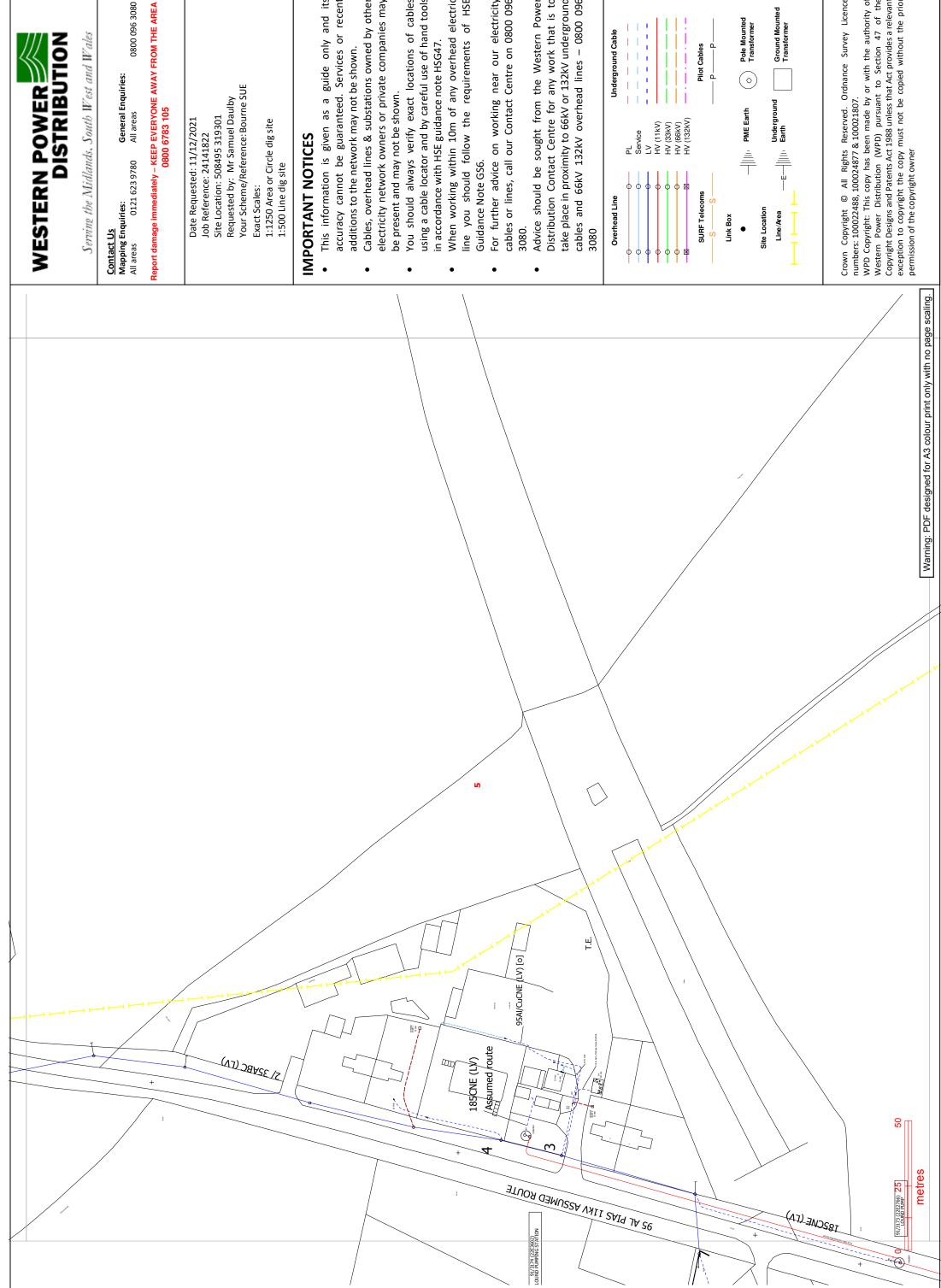
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  - For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096 Guidance Note GS6. 3080.
- Advice should be sought from the Western Power cables and 66kV 132kV overhead lines - 0800 096 Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground 3080



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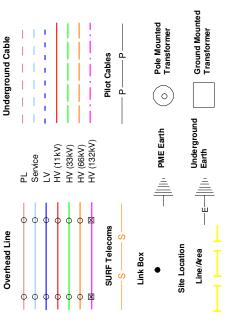
All areas

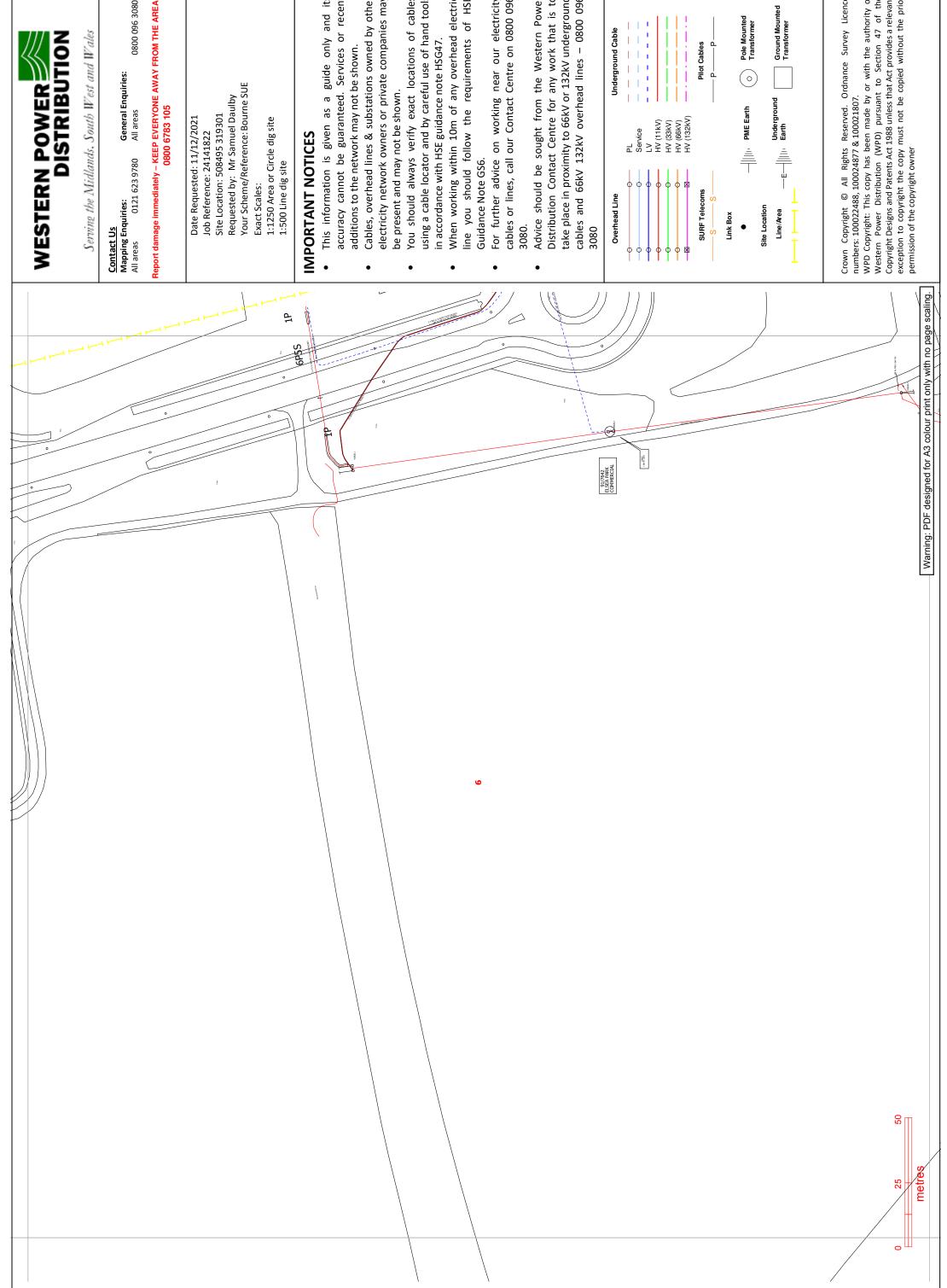
0800 6783 105

Your Scheme/Reference: Bourne SUE Requested by: Mr Samuel Daulby

1:1250 Area or Circle dig site

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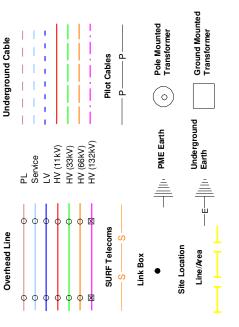
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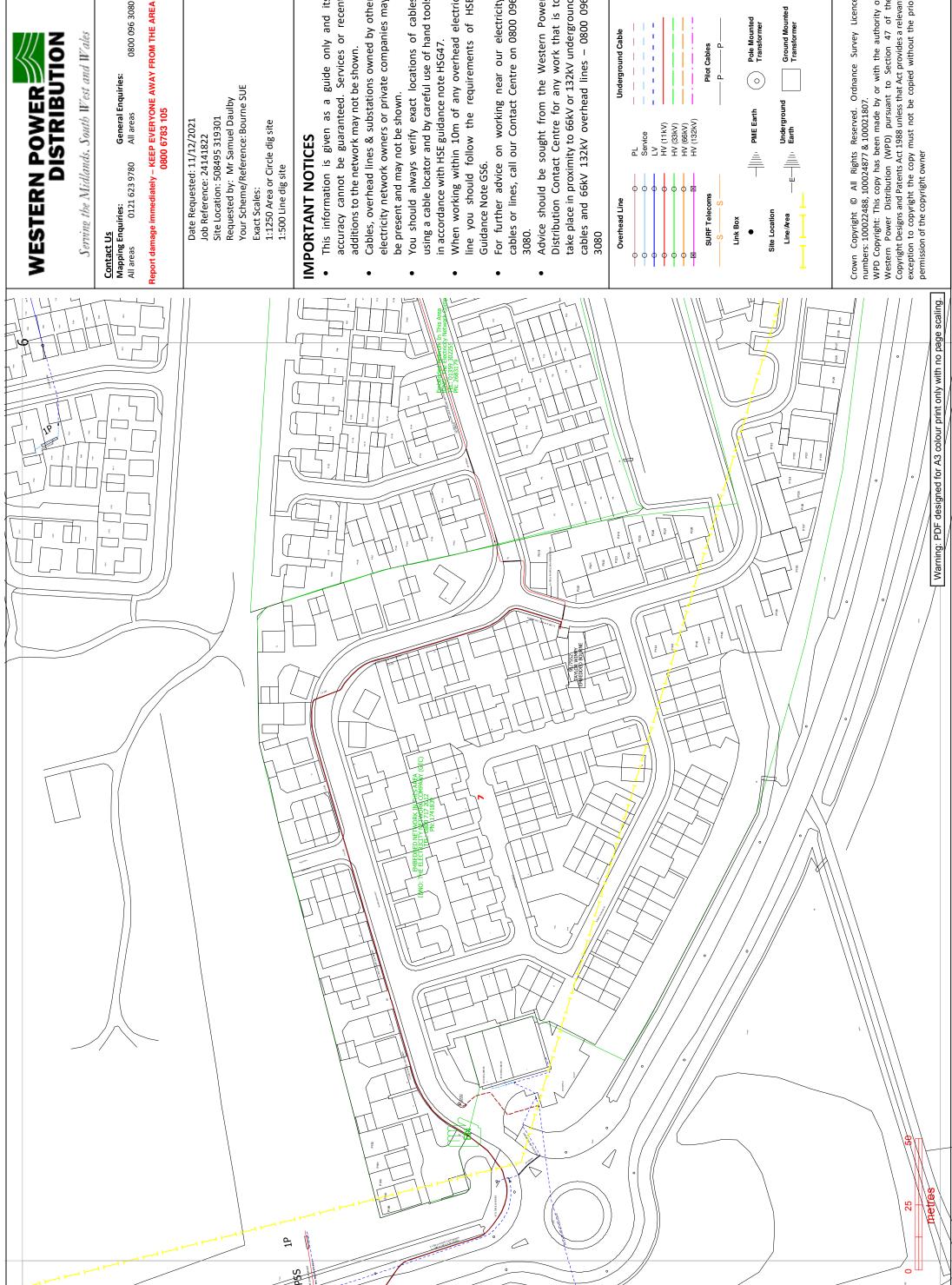
0800 006 3080

0800 6783 105

Your Scheme/Reference: Bourne SUE Requested by: Mr Samuel Daulby

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0121 623 9780

All areas

0800 6783 105

0800 006 3080

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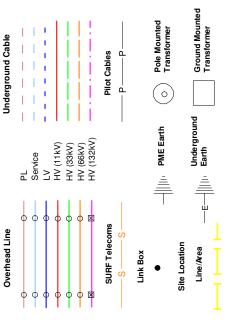
Requested by: Mr Samuel Daulby Site Location: 508495 319301 Job Reference: 24141822

1:1250 Area or Circle dig site Exact Scales:

1:500 Line dig site

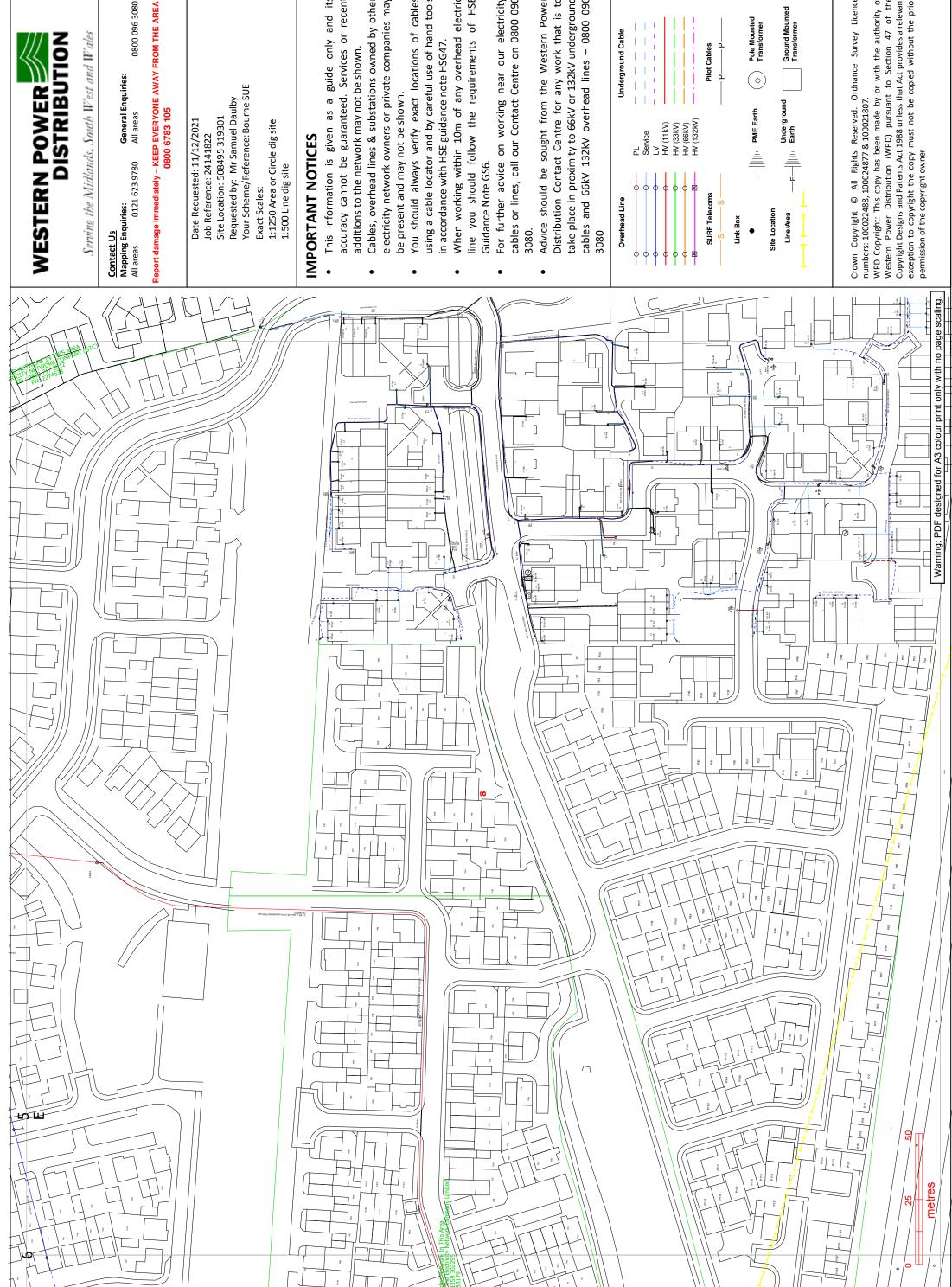
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0800 006 3080

All areas

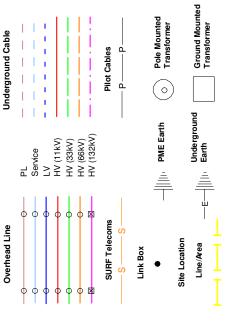
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1:1250 Area or Circle dig site

1:500 Line dig site

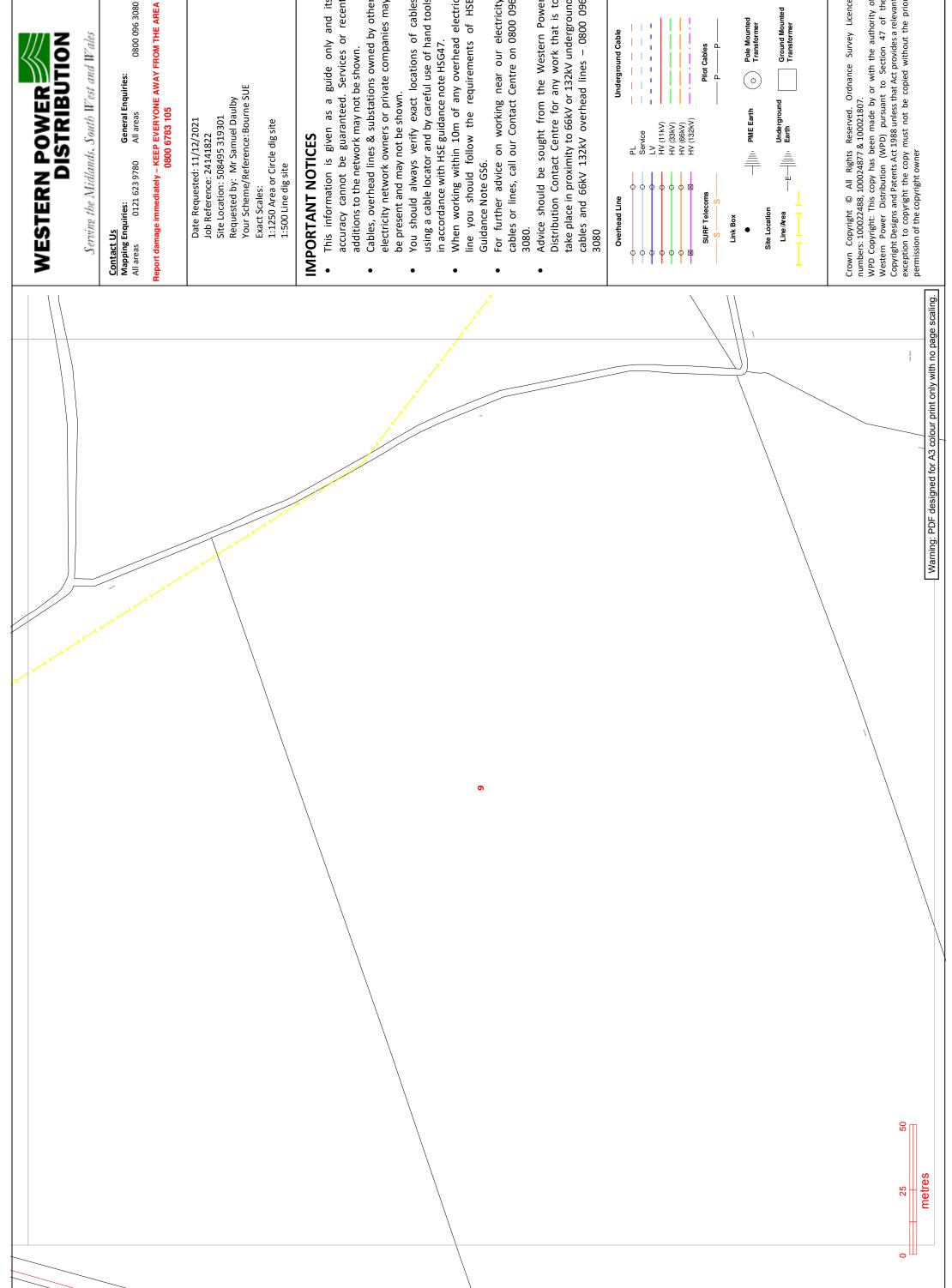
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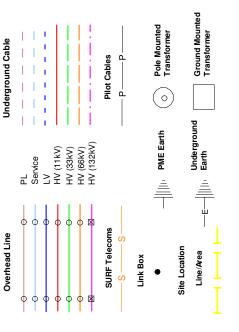
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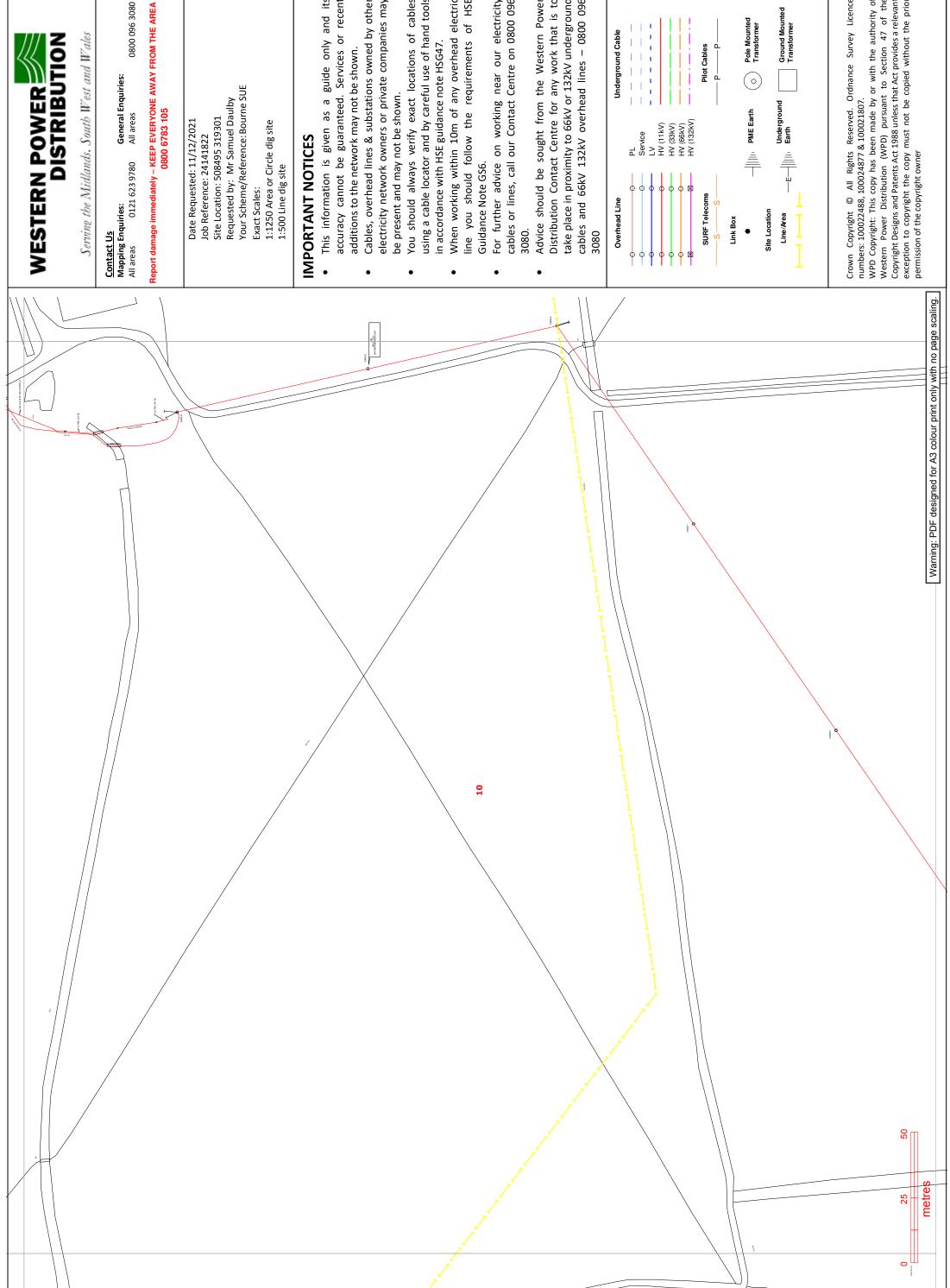
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  - You should always verify exact locations of cables using a cable locator and by careful use of hand tools
- When working within 10m of any overhead electric line you should follow the requirements of HSE in accordance with HSE guidance note HSG47.
- For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096





Serving the Midlands, South West and Wales

0121 623 9780

0800 006 3080

**General Enquiries:** 

All areas

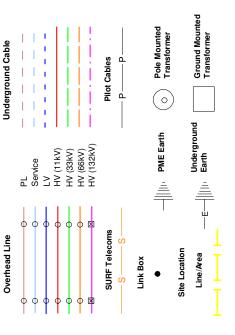
0800 6783 105

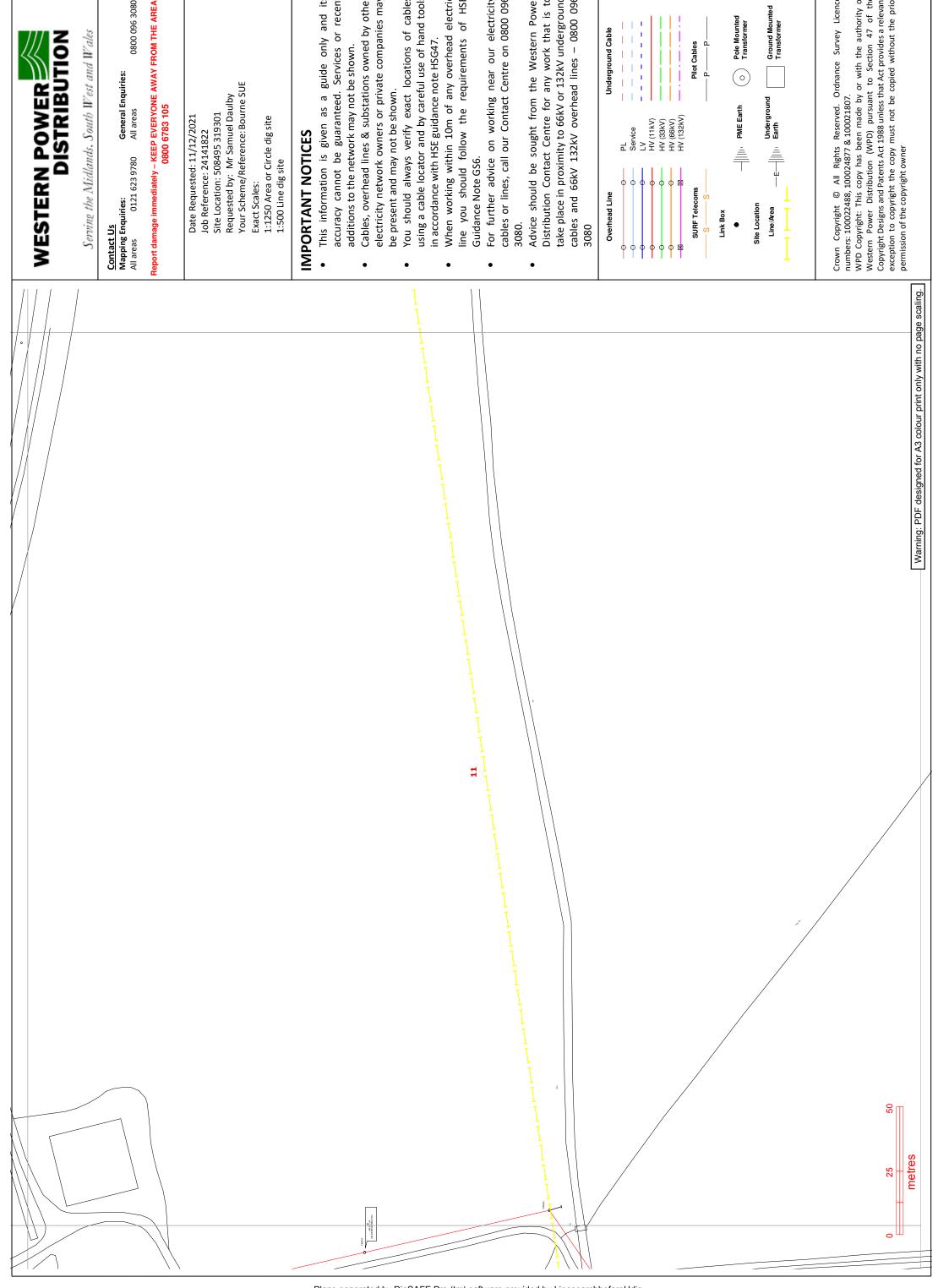
Your Scheme/Reference: Bourne SUE Requested by: Mr Samuel Daulby Site Location: 508495 319301

1:1250 Area or Circle dig site 1:500 Line dig site

# **IMPORTANT NOTICES**

- This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the network may not be shown.
- Cables, overhead lines & substations owned by other electricity network owners or private companies may be present and may not be shown.
  - using a cable locator and by careful use of hand tools You should always verify exact locations of cables in accordance with HSE guidance note HSG47.
- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.
  - For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096
- Advice should be sought from the Western Power take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096 Distribution Contact Centre for any work that is to





Serving the Midlands, South West and Wales

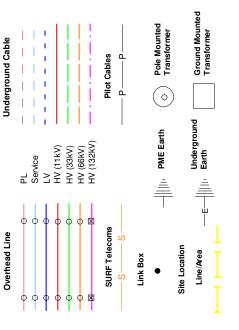
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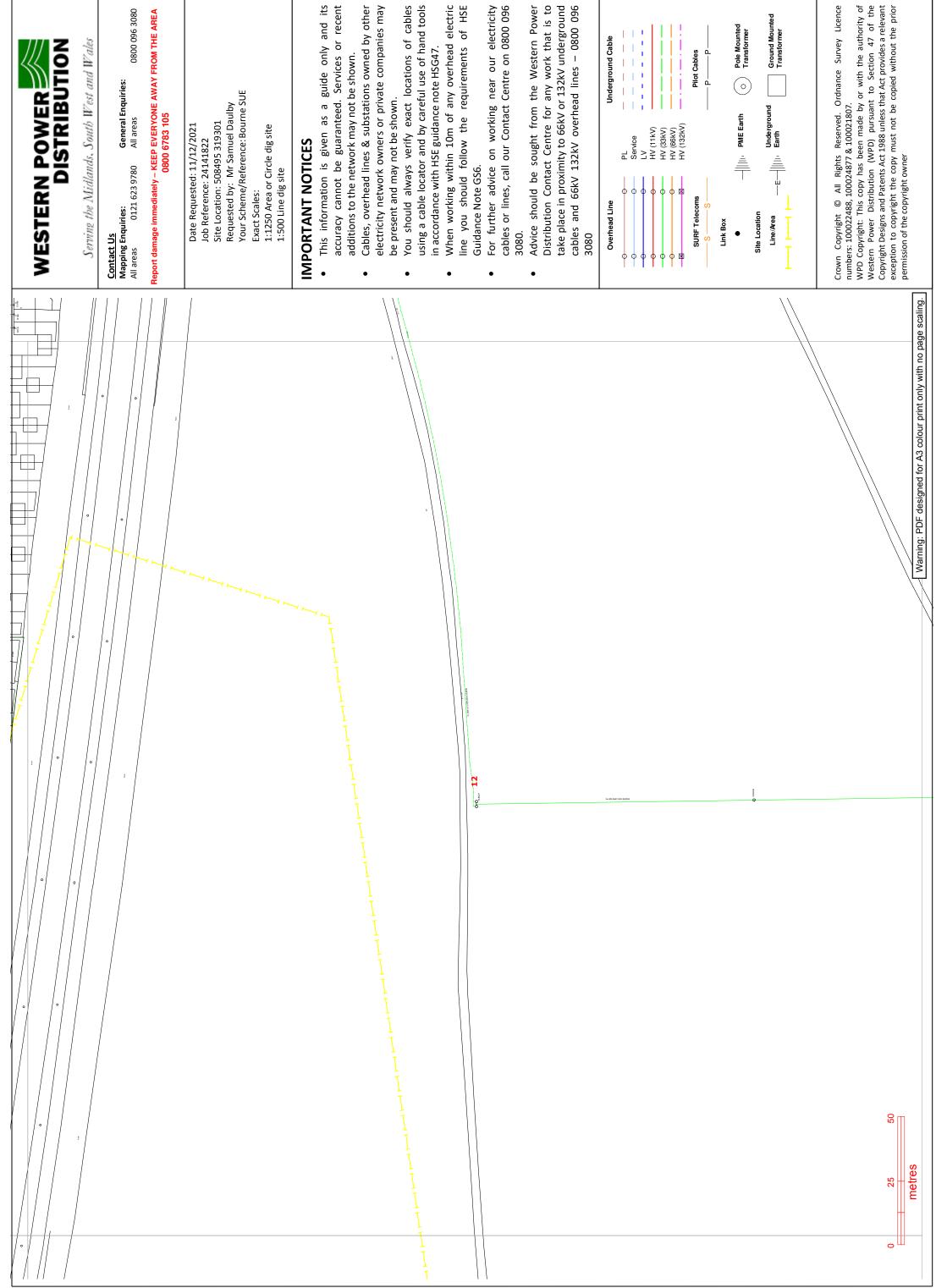
**General Enquiries:** 

All areas

Requested by: Mr Samuel Daulby

- This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the network may not be shown.
- Cables, overhead lines & substations owned by other electricity network owners or private companies may be present and may not be shown.
  - You should always verify exact locations of cables using a cable locator and by careful use of hand tools in accordance with HSE guidance note HSG47.
- When working within 10m of any overhead electric line you should follow the requirements of HSE
  - For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096





Ground Mounted Transformer

Pole Mounted Transformer

 $\odot$ 

Pilot Cables

**Underground Cable** 

0800 006 3080

| Appendix D – Anglian Water Pre-Planning Assessm | ient |
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### **Pre-Planning Assessment Report**

**Land West of Raymond Mays Way** 

InFlow Reference: PPE-0137180

Assessment Type: Water & Used Water

Report published: 22/12/2021







Thank you for submitting a pre-planning enquiry.

This has been produced for Utility Consult Limited. Your reference number is PPE-0137180.

This report can be submitted as a drainage strategy for the development should it seek planning permission.

If you have any questions upon receipt of this report, you can submit a further question via InFlow. Alternatively, please contact the Planning & Capacity team on 07929 786 955 or email planningliaison@anglianwater.co.uk

### Section 1 - Proposed development

The response within this report has been based on the following information which was submitted as part of your application:

| List of planned developments |              |  |  |  |
|------------------------------|--------------|--|--|--|
| Type of development          | No. Of units |  |  |  |
| Dwellings                    | 900          |  |  |  |

### The anticipated residential build rate is:

| Year       | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | <b>Y9</b> | Y10 | Y11 | Y12 |
|------------|----|----|----|----|----|----|----|----|-----------|-----|-----|-----|
| Build rate | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90        | 90  | 0   | 0   |

Development type: Greenfield
Planning application Unknown
Site grid reference TF0855419286
number:

The comments contained within this report relate to the public water mains and sewers indicated on our records. Your attention is drawn to the disclaimer in the useful information section of this report

### Section 2 - Assets affected

Our records indicate that we have the following types of assets within or overlapping the boundary of your development site as listed in the table below

Additionally, it is highly recommended that you carry out a thorough investigation of your proposed working area to establish whether any unmapped public or private sewers and lateral drains are in existence. We are unable to permit development either over or within the easement strip without our prior consent. The extent of the easement is provided in the table below. Please be aware that the existing water mains/public sewers should be located in highway or open space and not in private gardens. This is to ensure available access for any future maintenance and repair and this should be taken into consideration when planning your site layout

| Water and Used water easement information |                |                             |  |  |
|---|----------------|-----------------------------|--|--|
| Asset type                                | Pipe size (mm) | Total easement required (m) |  |  |
| Water mains                               | 260            | 6.0 overall easement        |  |  |

Due to the private sewer transfer in October 2011 many newly adopted public used water assets and their history are not indicated on our records. You also need to be aware that your development site may contain private water mains, drains or other assets not shown on our records. These are private assets and not the responsibility of Anglian Water but that of the landowner.

### **Source Protection Zone**

We note that the site falls within a Source Protection Zone, we have assessed the potential impact of the site and have concluded that there is a low risk to our potable water source

### Section 3 - Water supply

In examining the available capacity for your development site we assess the capacity and costs for two categories of water main. These are:

### Strategic

These are the offsite potable water mains which deliver water within an area to a large number of development sites often across a number of towns. The strategic provision of these water mains enables us to provide of the cheapest solution across a large geographical area.

### Local reinforcement

These are localised reinforcement mains to enable us to provide water to your development site. On most sites we also have two categories of water mains the Spine Mains and Housing Estate Mains (HEMs). To support your budgeting arrangements we have also examined the estimated cost for delivering the onsite water mains needed for a site of your size.

### Water supply network

The water supply to the proposed development site can be provided from the existing mains at two sources.

The whole site for 900 dwellings cannot be supplied at the preferred POC from the 280mm HPPE off the roundabout at Raymond Mays Way (TF0850119119). However, this existing main can supply properties with elevation of up to 25m AOD. Properties on higher ground level will have to be supplied from the pumping station at Toft (TF0783019089). The analysis assumed a 50-50 split on the number of dwellings. The pumped supply will likely require a PRV. If the two supply systems are interconnected, a closed valve (or valves, as necessary) will have to be installed to isolate them.

Anglian Water cannot reserve capacity and therefore you are recommended to formally apply for a connection at your earliest convenience. Please note that available capacity in our network can be reduced at any time due to increased requirements from existing businesses and houses as well as from new housing and new commercial developments.

### Connection point(s)

| Connection Points | Address          | National Grid Reference (NGR) |
|-------------------|------------------|-------------------------------|
| CP-6138           | Raymond Mays Way | TF0849919046                  |
|                   |                  |                               |
| CP 6138           | Toft Pumps       | TF0783019089                  |

### Water infrastructure and costs

Your development site will be required to pay an infrastructure charge for each new property connecting to the public sewer that benefits from Full planning permission.

You will be required to pay an infrastructure charge upon connection for each new plot on your development site. The infrastructure charge are types of charges set out in Section 146(2) of the Water Industry Act 1991

The charge should be paid by anyone who wishes to build or develop a property and is payable upon request of connection.

Payment of the infrastructure charge must be made before premises are connected to the public sewer.

| Infrastructure charge for water |          |
|---------------------------------|----------|
| Anglian Water supply            | £ 342.00 |

The infrastructure discount is a new element, introduced to reflect the changes in Ofwat's charging rules from April 2020.

The discount is £402.00 for each connection to the water supply network in the Anglian Water area.

Due to the changes in the charging rules, any discount must now be applied to the infrastructure charge rather than the requisition charge. This has provided us the opportunity to offer the discount (via the infrastructure charge) not just to water main requisitioners, but to those seeking water connections too.

Infrastructure charges are raised on a standard basis of one charge per new connection (one for water and one for sewerage). However, if the new connection is to non-household premises, the Infrastructure charges is calculated according to the number and type of water fittings in the premises. This is called the "relevant multiplier" method of calculating the charge.

Details of the relevant multiplier for each fitting can be found at our website.

### The Water Infrastructure charge for your dwellings is:

| Infrastructure charge | Number of units | Total       |
|-----------------------|-----------------|-------------|
| £ 342.00              | 900             | £ 307800.00 |

### The Infrastructure discount for your dwellings is:

| Infrastructure discount | Number of units | Total        |
|-------------------------|-----------------|--------------|
| -£ 402.00               | 900             | -£ 361800.00 |

### The estimated cost for the onsite water main for your development is:

| Onsite water main          | £            |
|----------------------------|--------------|
| Estimated cost of delivery | £ 540,000.00 |

Please note, a detailed cost breakdown will be provided on receipt of a formal application for a new water main.

Alternatively, you may wish to have the onsite main delivered by a Self-lay Provider under terms set out in a self-lay agreement.

For more information on water mains and self-lay of water mains, please visit our website

### **Section 4 - Water recycling services**

In examining the used water system we assess the ability for your site to connect to the public sewerage network without causing a detriment to the operation of the system. We also assess the receiving water recycling centre and determine whether the water recycling centre can cope with the increased flow and effluent quality arising from your development.

### Water recycling centre

The foul drainage from the proposed development is in the catchment of Bourne Water Recycling Centre, which currently has capacity to treat the flows from your development site. Anglian Water cannot reserve capacity and the available capacity at the water recycling centre can be reduced at any time due to growth, environmental and regulation driven changes.

### **Used water network**

Our assessment has been based on development flows connecting to the nearest accessible foul water sewer of the same size or greater pipe diameter to that required to drain the site. The infrastructure to convey foul water flows to the receiving sewerage network is assumed to be the responsibility of the developer. Conveyance to the connection point is considered as Onsite Work and includes all work carried out upstream from of the point of connection, including making the connection to our existing network. This connection point has been determined in reference to the calculated discharge flow and on this basis, a 300mm internal diameter pipe is required to drain the development site. The nearest network connection point that meets this criteria is at manhole 3101 in West Street, located at NGR TF0936220149. Anglian Water has assessed the impact of connecting the foul flows from the planned development to this point and unfortunately there is insufficient capacity in this sewer to accommodate your site. Consequently, we must consider an alternative foul water drainage strategy. An alternative strategy may involve connecting to a different point on the network or introducing some control on the flow discharged from the development. Anglian Water will reimburse reasonable costs incurred in connecting to the recommended connection point, over and above those required to connect to the nearest point of connection. In order to define a feasible alternative foul water drainage strategy we will need to understand your onsite drainage design in greater detail. Therefore, we would like to arrange a meeting to examine the available options and establish an effective strategy. Katie Clark our Pre-Development Senior Engineer for this area and will be responsible for evaluating the foul water drainage strategy. We'd grateful if you could advise Katie of your availability for a meeting and a convenient venue or alternatively a conference call can be arranged if this is more convenient. For your reference, Katie can be contacted at 07802810779 or kClark2@anglianwater.co.uk Please note that Anglian Water will request a suitably worded condition at planning application stage to ensure this strategy is implemented to mitigate the risk of flooding.

It is assumed that the developer will provide the necessary infrastructure to convey flows from the site to the network. Consequently, this report does not include any costs for the conveyance of flows.

### Surface water disposal

You indicated on the Pre-Planning Application form that a connection to the public surface water sewer network is not required. A new surface water sewer can be used as a mechanism to discharge surface water to a watercourse or as part of a Suds scheme where appropriate. Subject to the sewer being designed in accordance with the current version of Sewers For Adoption, the sewer can be put forward for adoption by Anglian Water under Section 104 of the Water Industry Act 1991. If the outfall is to a watercourse, the applicant will be required to obtain consent to discharge via the appropriate body. Therefore a capacity assessment has not been made on the public surface water network. However, should this situation change and you wish to have a surface water connection assessment on the local network, then we will provide this free of charge if requested within 12 months of this report and you are able to provide the relevant evidence that your original strategy was unviable.

As you may be aware, Anglian Water will consider the adoption of SuDs provided that they meet the criteria outline in our SuDs adoption manual. This can be found on our website.

We will adopt features located in public open spacethat are designed and constructed, in conjunction with the Local Authority and Lead Local Flood Authority (LLFA), to the criteria within our SuDs adoption manual. Specifically, developers must be able to demonstrate:

- 1. Effective upstream source control,
- 2. Effective exceedance design, and
- 3. Effective maintenance schedule demonstrating than the assets can be maintained both now and in the future with adequate access.

If you wish to look at the adoption of any SuDs then an expression of interest form can be found on our website As the proposed method of surface water disposal is not relevant to Anglian Water; we suggest that you contact

the relevant Local Authority, Lead Local Flood Authority, the Environment Agency or the Internal Drainage Board, as appropriate.

### Trade Fffluent

We note that you do not have any trade effluent requirements. Should this be required in the future you will need our written formal consent. This is in accordance with Section 118 of the Water Industry Act (1991).

### **Used Water Budget Costs**

Your development site will be required to pay an infrastructure charge for each new property connecting to the public sewer that benefits from Full planning permission.

You will be required to pay an infrastructure charge upon connection for each new plot on your development site. The infrastructure charge are types of charges set out in Section 146(2) of the Water Industry Act 1991

The charge should be paid by anyone who wishes to build or develop a property and is payable upon request of connection.

Payment of the infrastructure charge must be made before premises are connected to the public sewer.

| Infrastructure charge for water recycling: | £ 573.00 |
|--|----------|
|  |          |

### The Water Recycling Infrastructure charge for your dwellings is:

| Infrastructure charge | Number of units | Total    |
|-----------------------|-----------------|----------|
| £ 573.00              | 900             | £ 515700 |

Infrastructure charges are raised on a standard basis of one charge per new connection (one for water and one for sewerage). However, if the new connection is to non- household premises, the fixed element is calculated according to the number and type of water fittings in the premises. This is called the "relevant multiplier" method of calculating the charge.

Details of the relevant multiplier for each fitting can be found at our website.

It has been assumed that the onsite used water network will be provided under Section 104 of the Water Industry Act

It is recommended that you also budget for connection costs.

Please note that we offer alternative types of connections depending on your needs and these costs are available at our website.

**Section 5 - Map of Proposed Connection Points** 

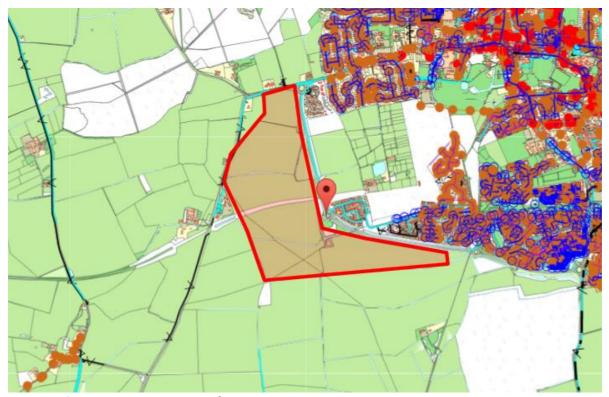


Figure 1: Showing your water point of connection

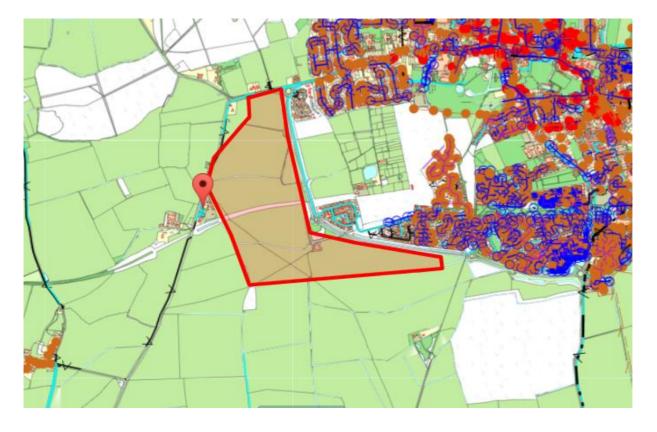


Figure 2: Showing your water second point of connection

### Section 6 - Useful information

### Water Industry Act - Key water sections

### Section 41:

This provides you with the right to requisition a new water main for domestic purposes to connect your site to the public water network.

### Section 45:

This provides you with the right to have a connection for domestic purposes from a building or part of a building to the public water main.

### Section 51A - E:

This provides you with the right to provide the water main or service connection yourself and for us to vest them into our company.

Section 55:

This applies where you request a supply of water for non-domestic purposes.

### Section 185

This provides you with the right to make a reasonable request to have a public water main, sewer or public lateral drain removed or altered, at your expense.

Details on how you can make a formal application for a new water main, new connection or diversion are available on from our Development Services team on 0345 60 66 087 or via our website

If you have any other queries on the rights to requisition or connect your housing to the public water and sewerage infrastructure then please contact our Development Services team at: Anglian Water PO Box 495. Huntingdon PE29 6YY

Telephone: 0345 60 66 087

Email: developmentservices@anglianwater.co.uk

### Water pressure and flow rate

The water pressure and consistency that we must meet for your site is laid out in the Water Industry Act (1991). This states that we must supply a flow rate of 9 litres per minute at a pressure of 10 metres of head to the external stop tap. If your water pressure requirements exceed this then you will need to provide and maintain any booster requirements to the development site.

### Self-lay of water mains

A list of accredited self-lay provider organisations can be found on the Lloyds Registrar Website

### Water Industry Act - Key used water sections

### Section 98:

This provides you with the right to requisition a new public sewer. The new public sewer can be constructed by Anglian Water on your behalf. Alternatively, you can construct the sewer yourself under section 30 of the Anglian Water Authority Act 1977.

### Section 102:

This provides you with the right to have an existing sewerage asset vested by us. It is your responsibility to bring the infrastructure to an adoptable condition ahead of the asset being vested.

### Section 104:

This provides you with the right to have a design technically vetted and an agreement reached that will see us adopt your assets following their satisfactory construction and connection to the public sewer.

### Section 106:

This provides you with the right to have your constructed sewer connected to the public sewer.

### Section 185

This provides you with the right to have a public sewerage asset diverted.

Details on how to make a formal application for a new sewer, new connection or diversion are available on our website or via our Development Services team on **0345** 60 66 087.

### Sustainable drainage systems

Many existing urban drainage systems can cause problems of flooding, pollution or damage to the environment and are not resilient to climate change in the long term. .

Our preferred method of surface water disposal is through the use of Sustainable Drainage Systems or SuDS.

SuDS are a range of techniques that aim to mimic the way surface water drains in natural systems within urban areas. For more information on SuDS, please visit our website

We recommend that you contact the Local Authority and Lead Local Flood Authority (LLFA) for your site to discuss your application.

### Private sewer transfers

Sewers and lateral drains connected to the public sewer on the 1 July 2011 transferred into Water Company ownership on the 1 October 2011. This follows the implementation of the Floods and Water Management Act (FWMA). This included sewers and lateral drains that were subject to an existing Section 104 Adoption Agreement and those that were not. There were exemptions and the main non-transferable assets were as follows:

Surface water sewers and lateral drains that do not discharge to the public sewer, e.g. those that discharged to a watercourse.

Foul sewers and lateral drains that discharged to a privately owned sewage treatment/collection facility. Pumping stations and rising mains will transfer between 1 October 2011 and 1 October 2016.

The implementation of Section 42 of the FWMA will ensure that future private sewers will not be created. It is anticipated that all new sewer applications will need to have an approved section 104 application ahead of a section 106 connection.

It is anticipated that all new sewer applications will need to have an approved Section 104 application ahead of a Section 106 connection

### **Encroachment**

Anglian Water operates a risk based approach to development encroaching close to our used water infrastructure. We assess the issue of encroachment if you are planning to build within 400 metres of a water recycling centre or, within 15 metres to 100 metres of a pumping station. We have more information available on our website

Locating our assets

Maps detailing the location of our water and used water infrastructure including both underground assets and above ground assets such as pumping stations and recycling centres are available from digdat

All requests from members of the public or non-statutory bodies for maps showing the location of our assets will be subject to an appropriate administrative charge.

We have more information on our website

### **Charging arrangements**

Our charging arrangements and summary for this year's water and used water connection and infrastructure charges can be found on our website

### Section 7 - Disclaimer

The information provided in this report is based on data currently held by Anglian Water Services Limited ('Anglian Water') or provided by a third party. Accordingly, the information in this report is provided with no guarantee of accuracy, timeliness, completeness and is without indemnity or warranty of any kind (express or implied).

This report should not be considered in isolation and does not nullify the need for the enquirer to make additional appropriate searches, inspections and enquiries. Anglian Water supports the plan led approach to sustainable development that is set out in the National Planning Policy Framework ('NPPF') and any infrastructure needs identified in this report must be considered in the context of current, adopted and/or emerging local plans. Where local plans are absent, silent or have expired these needs should be considered against the definition of sustainability holistically as set out in the NPPF.

Whilst the information in this report is based on the presumption that proposed development obtains planning permission, nothing in this report confirms that planning permission will be granted or that Anglian Water will be bound to carry out the works/proposals contained within this report.

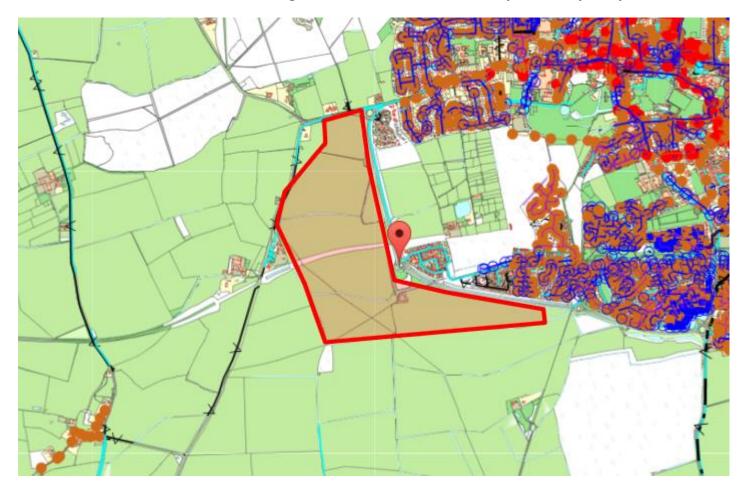
No liability whatsoever, including liability for negligence is accepted by Anglian Water or its partners, employees or agents, for any error or omission, or for the results obtained from the use of this report and/or its content. Furthermore, in no event will any of those parties be liable to the applicant or any third party for any decision made or action taken as a result of reliance on this report.

This report is valid for the date printed and the enquirer is advised to resubmit their request for an up to date report should there be a delay in submitting any subsequent application for water supply/sewer connection(s).



Inflow reference: PPE-0137180

### Water Connection Point 1: to the existing 280mm HPPE water main in Raymond Mays Way



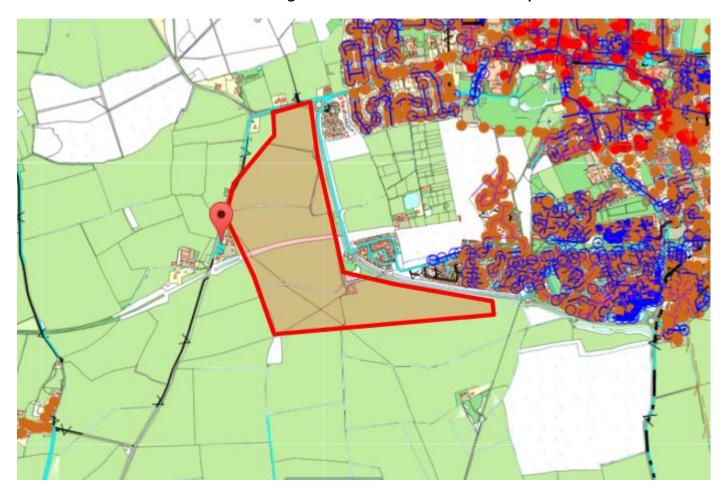


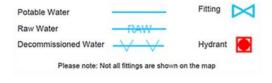
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Inflow reference: PPE-0137180

### Water Connection Point 2: to the existing 200mm DI water main in Toft Pumps











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| Appendix E – WPD Point of Co | onnection Correspondence |  |
|------------------------------|--------------------------|--|
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### Samuel Daulby

From: Jarvis, Mark <mjarvis@westernpower.co.uk>

**Sent:** 12 January 2022 12:54 **To:** Samuel Daulby

**Subject:** RE: 4179579 - Raymond Mays Way, Bourne

Attachments: 12.6 MVA POC Breakdown.pdf; 4.5MVA POC Breakdown.pdf; 4.5MVA POC Plan.pdf

Follow Up Flag: Follow up Flag Status: Completed

Ah, thanks.

I've attached the costs for the POCs.

We would need to install 2 new breakers at Bourne primary for the 4.5MVA.

For the 12.6MVA, we would need 2 new breakers at Tunnel Bank primary and 2 new breakers at Bourne primary.

If you have any questions, please let me know.

Regards,

### **Mark Jarvis**

Planner

Stamford Team Tel: 07734 491575

Team Support: Gill Broadbent – 01476 863029 (gbroadbent@westernpower.co.uk)
Team Support: Julie Marshall – 01476 863028 (jmarshall@westernpower.co.uk)

Team Manager: Sam Gray - 01476 863015 (sgray@westernpower.co.uk)



Serving the Midlands, South West and Wales a national grid company

From: Samuel Daulby <sam@utilityconsult.co.uk>

Sent: 12 January 2022 12:43

**To:** Jarvis, Mark <mjarvis@westernpower.co.uk> **Subject:** RE: 4179579 - Raymond Mays Way, Bourne

CAUTION: This email originated from outside of Western Power Distribution. Do not click links or open attachments unless you recognise the sender and know the content is safe. If you notice anything suspicious please contact the WPD Cyber Team (email: wpdcyberteam@westernpower.co.uk)

Hi Mark,

I think I replied on 24<sup>th</sup> December. A POC is fine at this stage.

Kind regards, Sam Daulby

T. 01536 639000

E. Sam@utilityconsult.co.uk

